STR-AV970X/AV1070X

SERVICE MANUAL

US Model
Canadian Model
STR-AV970X/AV1070X
E Model
STR-AV1070X

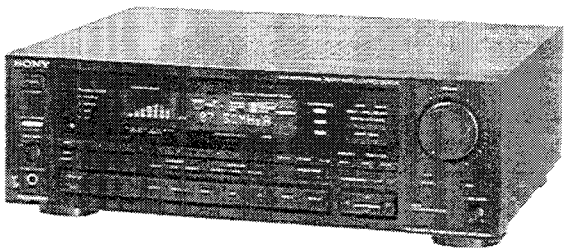

Photo : AV970X

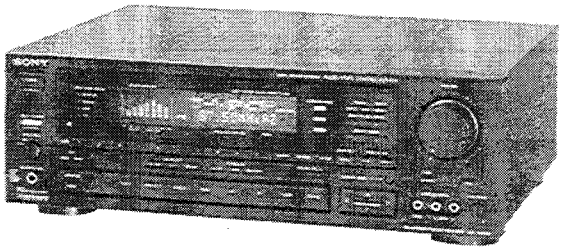

Photo : AV1070X

SPECIFICATIONS

Audio Power Specifications

POWER OUTPUT AND TOTAL HARMONIC DISTORTION

With 8-ohm load, both channels driven, from 20 - 20,000 Hz, rated 120 watts (STR-AV1070X) or 100 watts (STR-AV970X) per channel minimum RMS power, with no more than 0.015% (STR-AV1070X) or 0.03% (STR-AV970X) total harmonic distortion from 250 milliwatts to rated output.

Other Specifications

Amplifier section

		STR-AV1070X	STR-AV970X
Dynamic power output	8 ohms, at 1 kHz IHF	195 + 195 watts	140 + 140 watts
	4 ohms, at 1 kHz IHF	250 + 250 watts	190 + 190 watts
Harmonic distortion at rated output		Less than 0.015%	Less than 0.03%
Intermodulation (IM) distortion at rated output		Less than 0.015%	Less than 0.03%
Power output of center amplifier (STR-AV1070X only)		30 watts (15 + 15 watts, 8 ohms at 1kHz)	
Power output of surround(REAR)/ DRLC amplifier (8 ohms, at 1kHz)		15 + 15 watts	
Frequency response	PHONO	RIAA equalization curve ±0.5 dB	
	CD, DAT, TAPE 1,2 VIDEO 1,2,3*	10 Hz — 70 kHz $^{+0}_{-1}$ dB	

Residual noise		Less than 70μV
Damping factor (8 ohms, at 1kHz)		50
Input sensitivity/ impedance	PHONO MM	2.5 mV, 50 kilohms
	DAT,CD, VIDEO 1,2,3* TAPE 1,2	150 mV 50 kilohms
S/N	PHONO MM	87 dB 79 dB** (A,2.5mV)
	DAT, CD VIDEO 1,2,3* TAPE 1,3	105 dB 85 dB** (A,150mV)
Output	DAT OUT, TAPE OUT 1,2 VIDEO 1	150 mV 10 kilohms
	SPEAKERS	Accepts seakers of 8-16 ohms
	HEADPHONES	Accepts headphones of high and low impedance
	CENTER OUT, REAR OUT	2.5 V, 1kilohm
	PRE OUT	1 V, 1Kilohm
MUTING		-20dB
DBFB		+10 dB (70 Hz)
Graphic Equalizer		7-band ±10 dB at 63Hz, 160 Hz, 400Hz,1kHz, 2.5 kHz, 6.3 kHz and 16 kHz

*STR-AV1070X only
** '78IHF

— Continued on page 2 —

MICROFILM

FM STEREO/FM-AM RECEIVER

SONY®

FM tuner section

Frequency range		87.5 — 108.0 MHz
Antenna terminals		300 ohms, balanced 75 ohms, unbalanced
Sensitivity at 50 dB		18.3 dBf, 4.5 µV (mono) 38.3 dBf, 45 µV (stereo)
Usable sensitivity		11.2 dBf, 2 µV (IHF)
S/N	Mono	80 dB
	Stereo	74 dB
Harmonic distortion at 1 kHz	Mono	0.3 %
	Stereo	0.5 %
IM distortion	Mono	0.3 %
	Stereo	0.5 %
Separation		45 dB at 1 kHz
Frequency response		30 Hz — 15 kHz $^{+0}_{-2}$ dB
Selectivity		60 dB at 400 kHz
Capture ratio		1.2 dB
AM suppression ratio		54 dB
Image response ratio		70 dB
IF response ratio		70 dB
Spurious response ratio		80 dB
RF intermodulation at 800 kHz		60 dB
Auto tuning threshold	Low	30 dBf
	High	50 dBf

AM tuner section

Frequency range	530 — 1710 kHz (with 10 kHz interval) 531 — 1710 kHz (with 9 kHz interval)
Antenna	Loop antenna
Usable sensitivity	50 dB/m (at 1,000 kHz or 999 kHz)
S/N	54 dB (at 50 mV/m)
Harmonic distortion	0.5% (50 mV/m, 400 Hz)
Selectivity	35 dB (9 kHz), 40 dB (10 kHz)
Auto tuning threshold	55 dB/m

Video section

	STR-AV1070X	STR-AV970X
Inputs	VIDEO 1,2,3: 1 Vp-p 75 ohms	VIDEO 1,2: 1 Vp-p 75 ohms
Outputs	VIDEO 1, MONITOR: 1 Vp-p 75 ohms	

General

		STR-AV1070X	STR-AV970X
System	Tuner section	PLL quartz-locked digital synthesizer system	
	Preamplifier section	Low-noise NF type equalizer	
	Power amplifier section	Pure-complimentary SEPP	
Power requirements		120 V AC,60 Hz	
Power consumption		USA model: 265 watts Canada model: 565 VA	USA model: 220 watts Canada model: 450 VA
AC outlets		Two switched, total 120 watts	
Dimensions		430 x 147.5 x 350 mm (17 x 5 13/16 x 14 1/8 inches)	
Weight		12.5 kg (27 lb 9 oz)	10 kg (22 lb 1 oz)

Supplied accessories
FM wire antenna (1)
AM loop antenna (1)
Remote commander (1)
RM-P311 (STR-AV1070X)
RM-U211 (STR-AV970X)
Sony Batteries SUM-3(NS) (2)

Design and specifications subject to change without notice.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SAFETY CHECK-OUT (US Model)

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

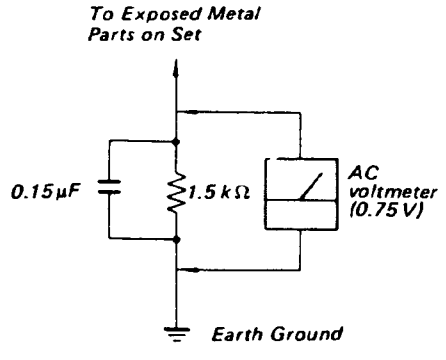

Fig. A. Using an AC voltmeter to check AC leakage.

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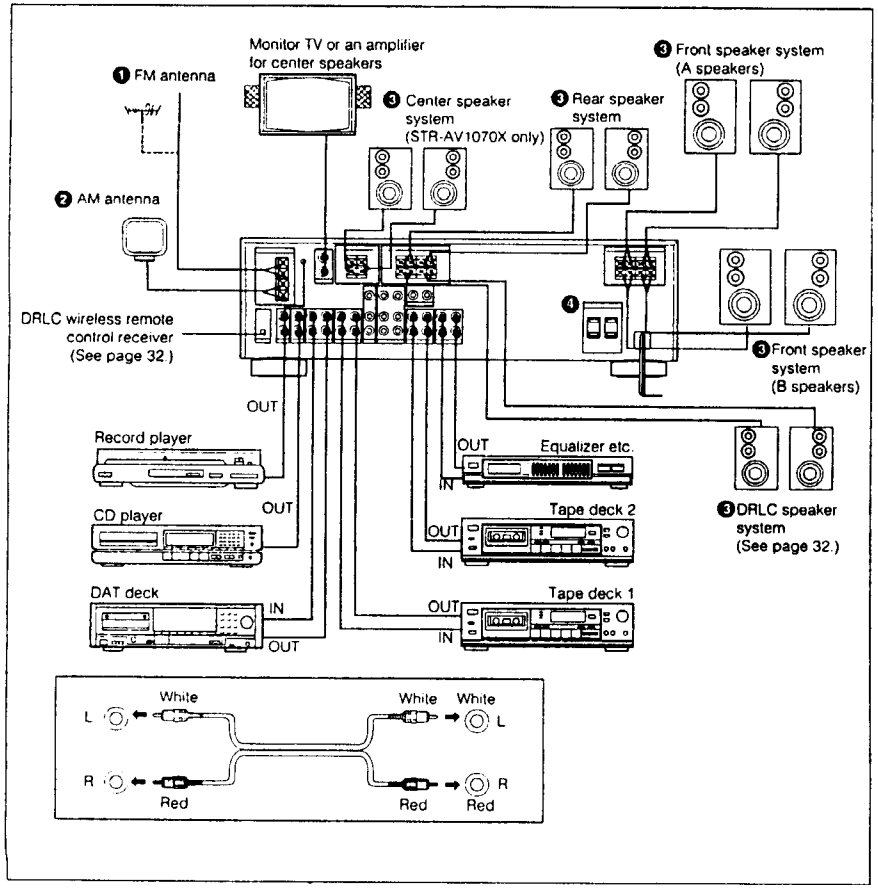
1-1. CONNECTIONS

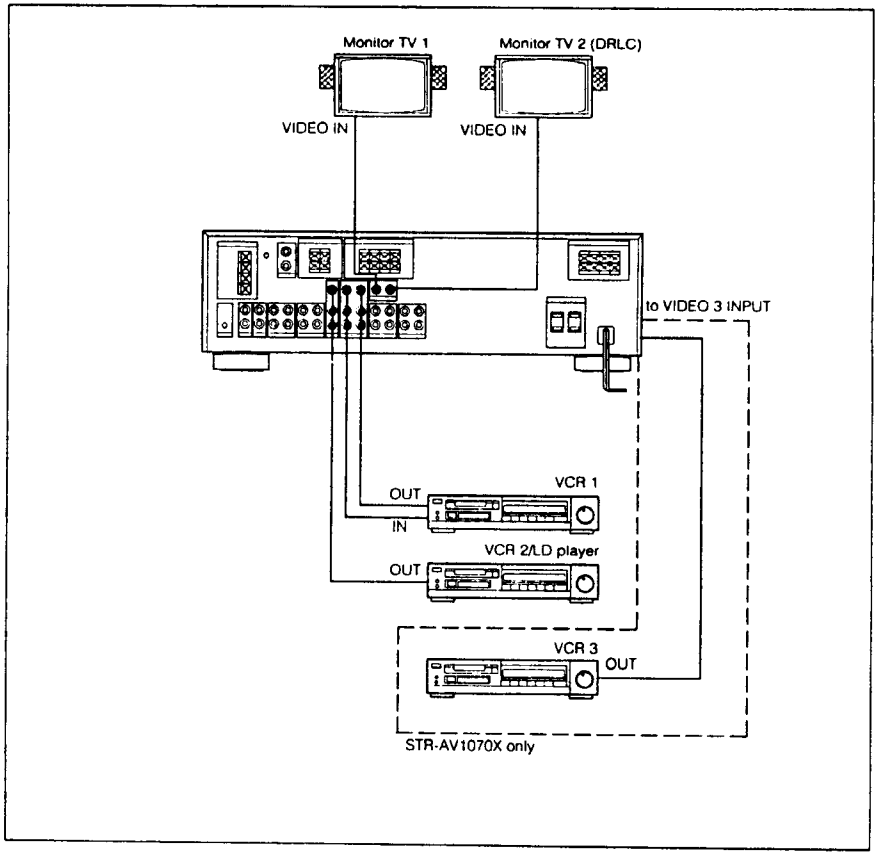
Notes on Connections

- Do not connect the power cord to an AC outlet nor press the POWER switch before accomplishing all other connections
- The cable connectors should be fully inserted into the jacks. Loose connection may cause hum and noise.
- Jacks and plugs of the connecting cord are color-coded as follows:
  Red jacks and plugs: For the right channel of audio signals
  White jacks and plugs: For the left channel of audio signals
  Yellow jacks and plugs: For video signals

Connecting Audio Equipment



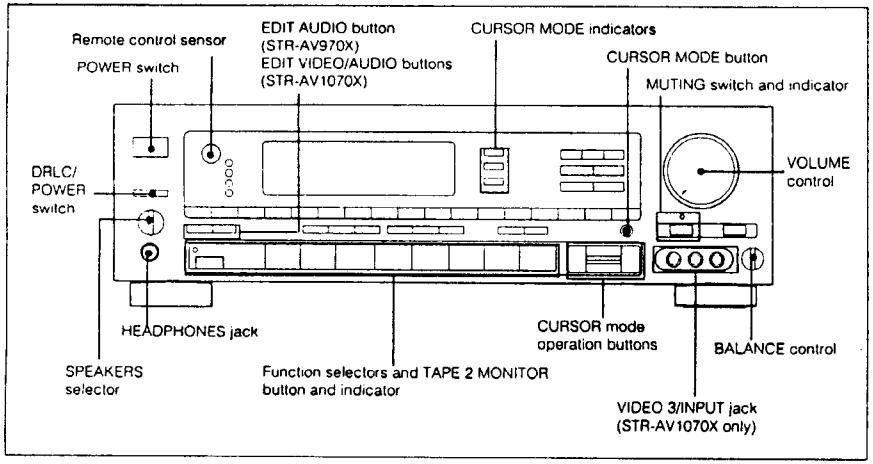
Connecting Video Equipment



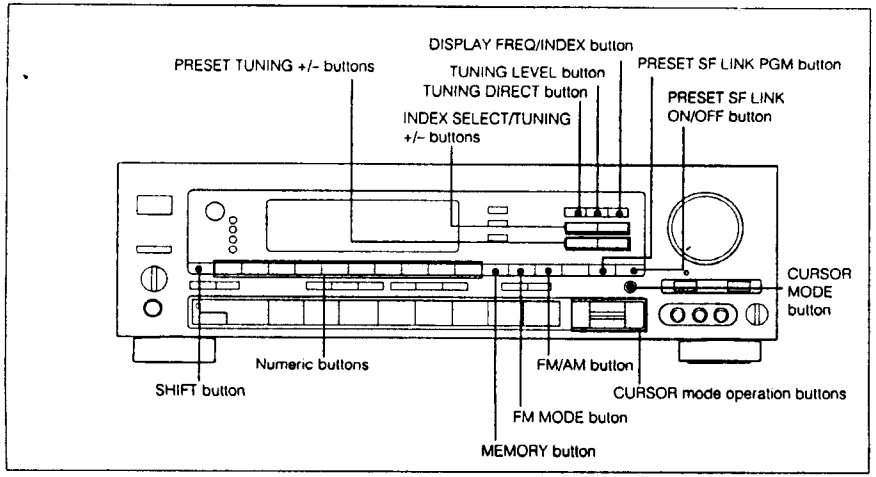
1-2. PARTS IDENTIFICATION

Front Panel

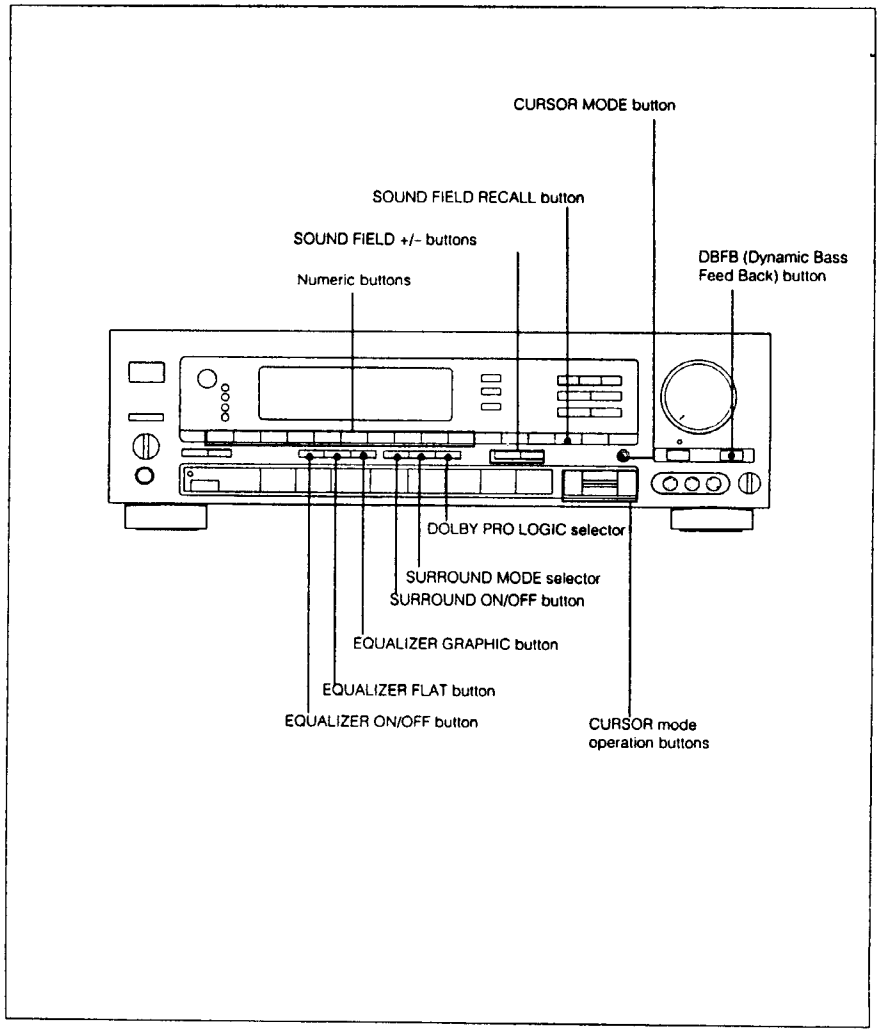
Amplifier and general section



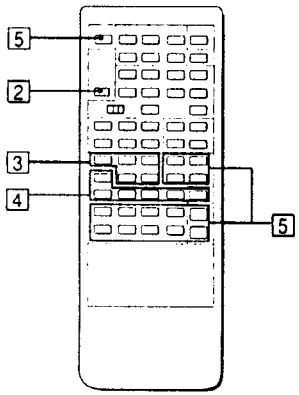
Tuner section

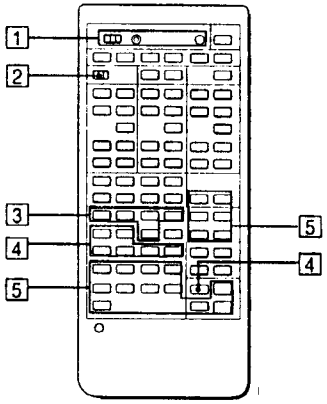


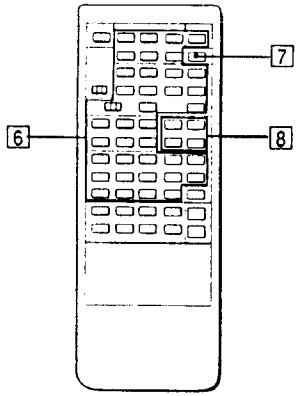
Sound field control section



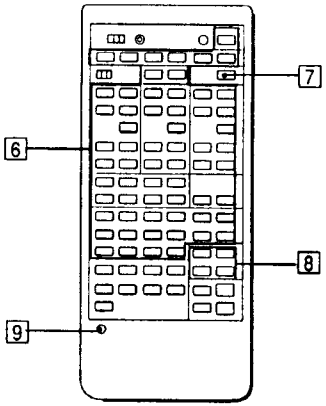
Remote Commander







RM-U211
(supplied with the STR-AV970X)



RM-P311
(supplied with the STR-AV1070X)

1 Program control section (RM-P311 only)
Mode selector and indicator (page 34)
SONY STD: To control Sony equipment
USER STD: To control equipment whose remote control functions are stored.
LEARN: To store functions of other remote commanders emitting infrared rays.
PROGRAM CLEAR button: Clears the stored functions.

2 MODE selector
1: To select the functions indicated in light gray such as DECK, DAT, CD player and CURSOR/SURROUND mode of the receiver.
2: To select the functions indicated in blue such as VTR, LDP (Laser disc player) and TV.

3 Cursor control section
CURSOR operation buttons
MODE button: Selects cursor mode.

4 Sound control section
SURROUND buttons
ON/OFF: Turns on/off the surround mode.
MODE: Selects the surround mode.
T. (test) TONE: Generates a pink noise signal that is sent in succession to each speaker.
EQ (equalizer) ON/OFF button: Turns on/off the equalizer.
S.(sound) FIELD buttons
MODE: Selects sound field mode
USER/PRESET button (RM-P311 only): This button does not operate.
DBFB button (RM-U211 only): Turns on/off the DBFB (Dynamic Bass Feed Back)
DDS/DBFB button (RM-P311 only): Turns on/off the DBFB (Dynamic Bass Feed Back). (DDS function is not available with this receiver.)

5 Amplifier section
FUNCTION selectors: Select an input source of the receiver. (The VIDEO 3 button does not operate on the STR-AV970X.)
DIGITAL button (RM-P311 only): This button does not operate.
REAR LEVEL +/– buttons: Control the volume of rear speakers (surround level)
MUTING button: Mutes the sound.
MASTER VOL +/– buttons: Control the receiver volume.
CENTER LEVEL +/– buttons : Control the volume of center speaker (surround level)
ON SCREEN buttons (RM-P311 only)
ON/OFF button: This button does not operate.
TITLER ON/OFF button: This button does not operate.

6 Control for other equipment
Power control block
SYSTEM OFF button: Turns off the power of the whole system: LDP, VTR, TV and AUDIO
LDP/VTR/TV/AUDIO POWER buttons: Control the power of each unit
CDP/LDP control block
D (disc) SKIP: Disc skip (for a CD player equipped with a multi-disc changer)
►: Starts play
I◄◄/►►I: Locates a desired selection (for a CD player only with RM-U211)
■: Stops play.
◄◄/►►: Manual search (for a laser disc player only with RM-U211)
II: Pause
TAPE/DAT/VTR control block
ANT TV/VTR button: Selects the output signal from the antenna terminal on the VCR, either a TV signal or VCR programs
VTR CH +/– buttons: Select channel on the VCR.
◄◄/►►: fast winding
■: Stop
◄/►: Play
II: Pause
●: Recording (RM-U211: While pressing ●, press ►)
REC MODE REV/FWD buttons (RM-P311 only):
For reverse recording, press REV and ● together.
For forward recording, press FWD and ● together
DECK/VTR selector (RM-U211 only)
MODE 1(DECK A,B and DAT): Selects DECK A, B or DAT.
MODE 2(VTR 1, 2 and 3): Selects VTR 1, 2 or 3.
VTR 1: Betamax VCRs
VTR 2: 8mm VCRs
VTR 3: VHS VCRs
TV control block
TV/VIDEO selector: Selects the program to see: TV or VIDEO.
VOL +/– buttons: Control the TV volume
CH +/– buttons: Select a preset channel
Program number (1 to 0) and ENTER buttons: Select the channel

7 SLEEP button
Set to the SLEEP timer mode. In this mode, the unit is automatically turned off after 60 minutes.

8 Tuner section
INDEX SELECT and INDEX buttons: Select an indexed preset station
TUNER SHIFT and PRESET +/– buttons: Select a preset station.

9 RESET button (RM-P311 only)
Reset the commander to the initial state

Note on the ● (recording) button under 6 TAPE/DAT/VTR buttons
If your recorder is of such type as pressing ● puts it in recording pause mode, first press ● on this commander and then II.

Note:
The ◄/► (play) buttons in 6 and the SHIFT button and PRESET +/– buttons in 8 can function without pressing one of the FUNCTION buttons in 5, if the CD player is connected to the CD jacks, the tape deck to the TAPE jacks and the video deck to the VIDEO 1 jacks (switch the DECK/VTR selector on the remote commander to VTR 1)

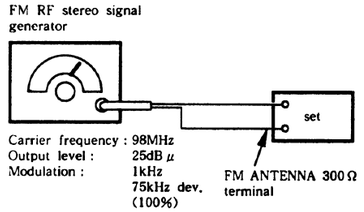
SECTION 2
ELECTRICAL ADJUSTMENTS

2-1. ELECTRICAL ADJUSTMENTS

FM SECTION

• FM Discriminator (NULL) Adjustment

Setting :



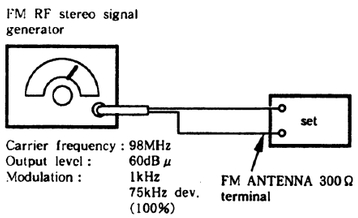
Procedure :

1. Tune the set to 98MHz.
2. Adjust T21 for 0V reading on the VOM.

Note : FM Tuning level adjustment should be made after FM discriminator adjustment.

• FM Tuning Level Adjustment

Setting :

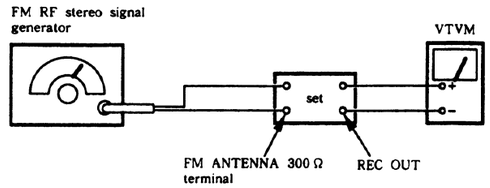

FM RF stereo signal generator
set
Carrier frequency : 98MHz
Output level : 60dB μ
Modulation : 1kHz 75kHz dev. (100%)
FM ANTENNA 300Ω terminal

Procedure :

1. Tune the set to 98MHz.
2. Adjust RV24 so that the STEREO LED goes on.

• FM Stereo Separation Adjustment

Setting :



Carrier frequency : 98MHz
Output level : 60dB μ
Modulation :
Audio (1kHz) : 33.75kHz dev. (45%)
Pilot (19kHz) : 7.5kHz dev. (10%)
Sub-channel (38kHz) : 33.75kHz dev. (45%)

Procedure :

Tune the set to 98MHz.

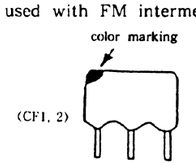
FM stereo signal generator output channel	VTVM connection	VTVM reading (dB)
L-CH	L-CH	Ⓐ
R-CH	L-CH	Ⓑ Adjust RV21 for minimum reading.
R-CH	R-CH	Ⓒ
L-CH	R-CH	Ⓓ Adjust RV21 for minimum reading.

L-CH Stereo separation : Ⓐ − Ⓑ
R-CH Stereo separation : Ⓒ − Ⓓ

The separations of both channels should be equal.

Note on Ceramic Filter (CF1, 2) Replacement.

This set employs two ceramic filters (CF1, 2) which should have the same color marking to identify their center frequency. Therefore FM IF offset adjustment by (*A, *B) connection is necessary to match the center frequency of the ceramic filters used with FM intermediate frequency.

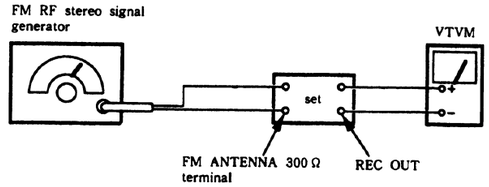


○ : short
× : open

Ceramic filter		Connection		FM intermediate frequency (MHz)
Color mark	Center frequency (MHz)	*A (D134)	*B (D135)	
White	10.750	○	×	10.750
Red	10.700	○	○	10.700
Black	10.650	×	○	10.650

• Auto Stop Level Adjustment

Setting :



Carrier frequency : 98MHz
Output level : 40dB μ or 45dB μ

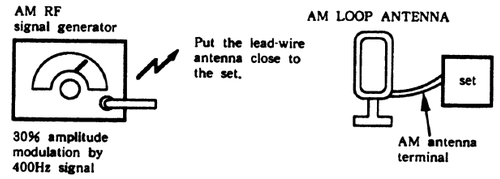
Procedure :

1. Turn the High/Low select switch to High.
2. Adjust RV25 so that the TUNED LED goes on.

AM SECTION

• AM Tuning Level

Setting :

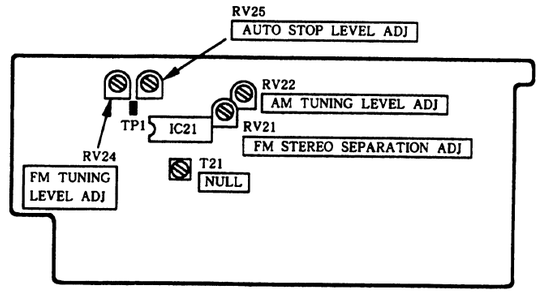

AM RF signal generator
Put the lead-wire antenna close to the set.
AM LOOP ANTENNA
set
30% amplitude modulation by 400Hz signal
AM antenna terminal

Procedure :

1. Tune the set to 1,050kHz.
2. Adjust the RV22 so that the TUNED LED goes on.

Adjustment Location : Tuner board

[SURROUND BOARD]



AMP SECTION

DC Bias Adjustment

- Perform this adjustment after replacement of power amp or drive circuit transistors.

Setting :

VOLUME : 0
SPEAKERS : OFF (no load)

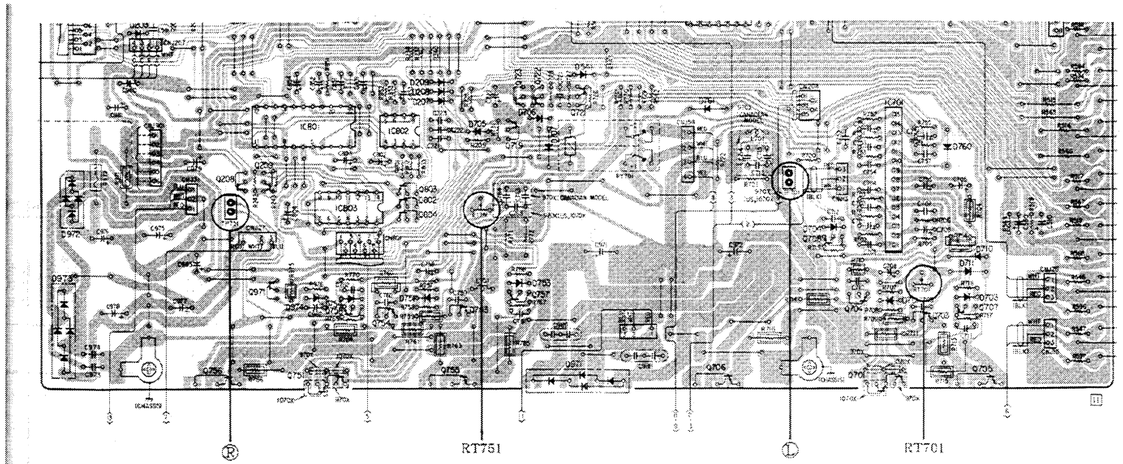
Procedures :

1. Connect the digital voltmeter to Bias Check Point (TP701 : L : L-CH, TP751 : R : R-CH).
2. Increase the AC power voltage gradually to 120V confirming that the voltmeter will not indicate an abnormal value.
3. Confirm that the display is normal.
4. Adjust RT701 (L-CH) or RT751 (R-CH) so that the reading on the voltmeter becomes 2mV within 30 seconds after the power turned on.

Note : It is normal that the voltage will increase as time passes.

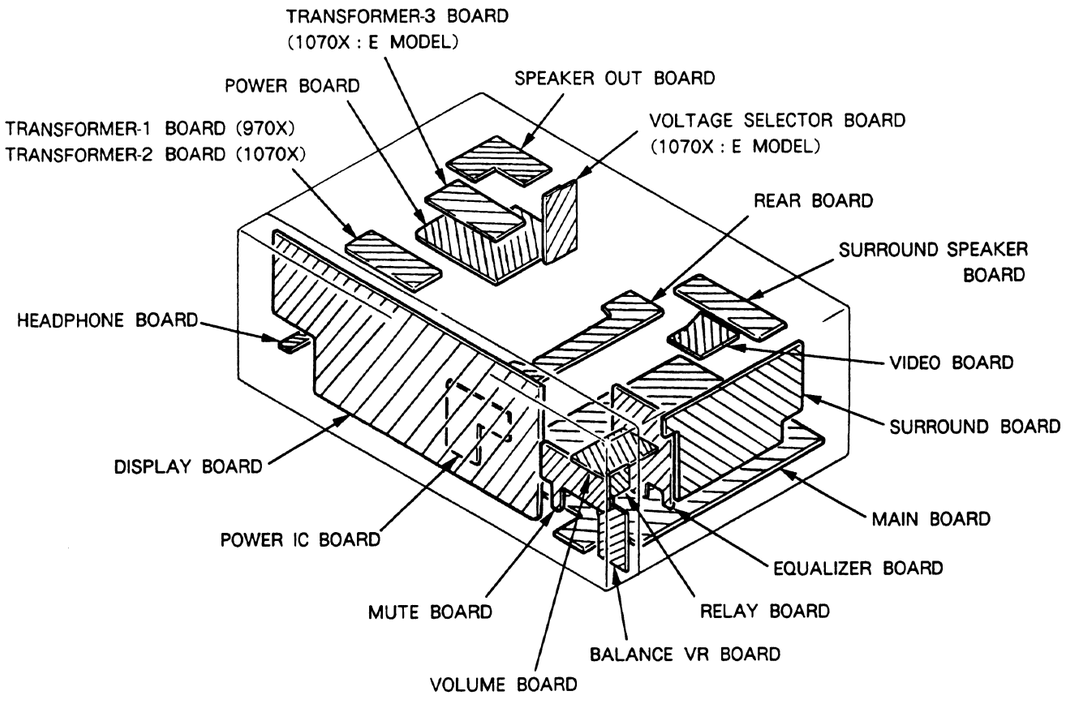
5. Turn the power off and remove the digital voltmeter.

[MAIN BOARD]



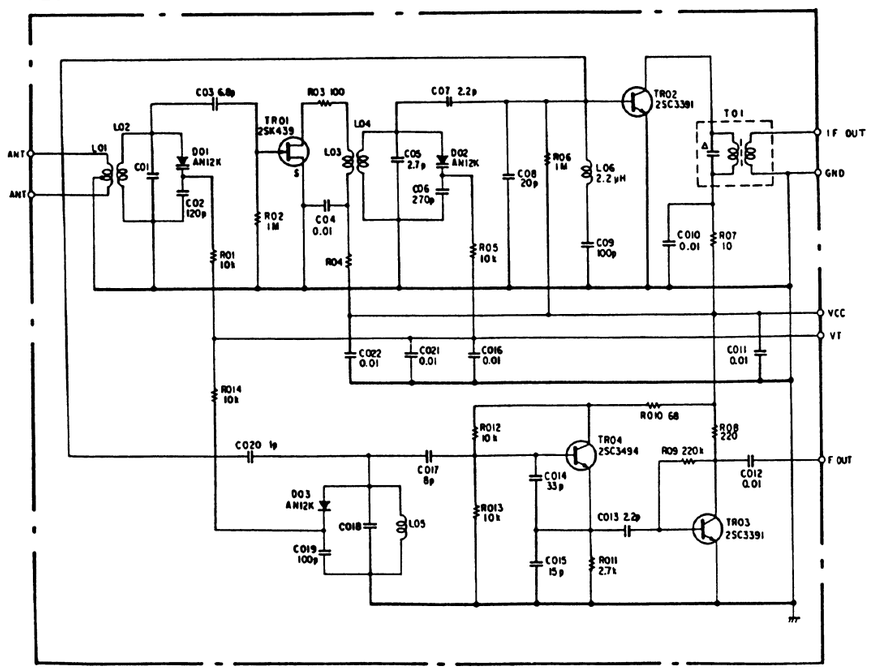
SECTION 3
DIAGRAMS

3-1. CIRCUIT BOARDS LOCATION



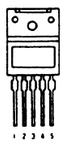
• FM FRONT-END SCHEMATIC DIAGRAM

FE1

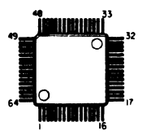


• SEMICONDUCTOR LEAD LAYOUTS

LM3875-2
SI-18752N

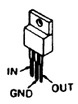


LV1001M

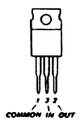


M5218AL

M5F78M05L
M5F78M12L



M5F79M12L



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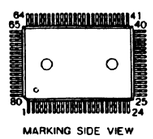
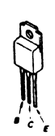


2SA988-PAFAEA
2SC1841-PAFAEA

2SA1175-HFE

2SA1215-OY
2SA1492-OY
2SC2921-OPY
2SC3856-OY

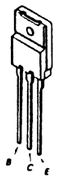
2SA1684-LK
2SC4431-LK



2SC2603-EF
2SC2669-OY
2SC3113-AB
2SC3623A-LK
DTA124ES
DTC114ES
DTC124ES

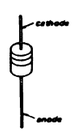
2SD774-34

2SD2012

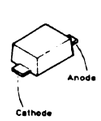


2SK246-Y
2SK246-GR3

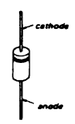
11ES2
1SS120
HZS6C3L
'IZS30-3L



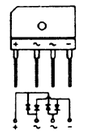
1SS355



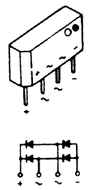
HZ4ALL



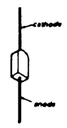
RBV-406H-01
RBV-602



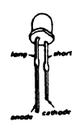
S1VB40



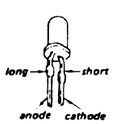
SV04



SEL2810A
SEL3810A-CD



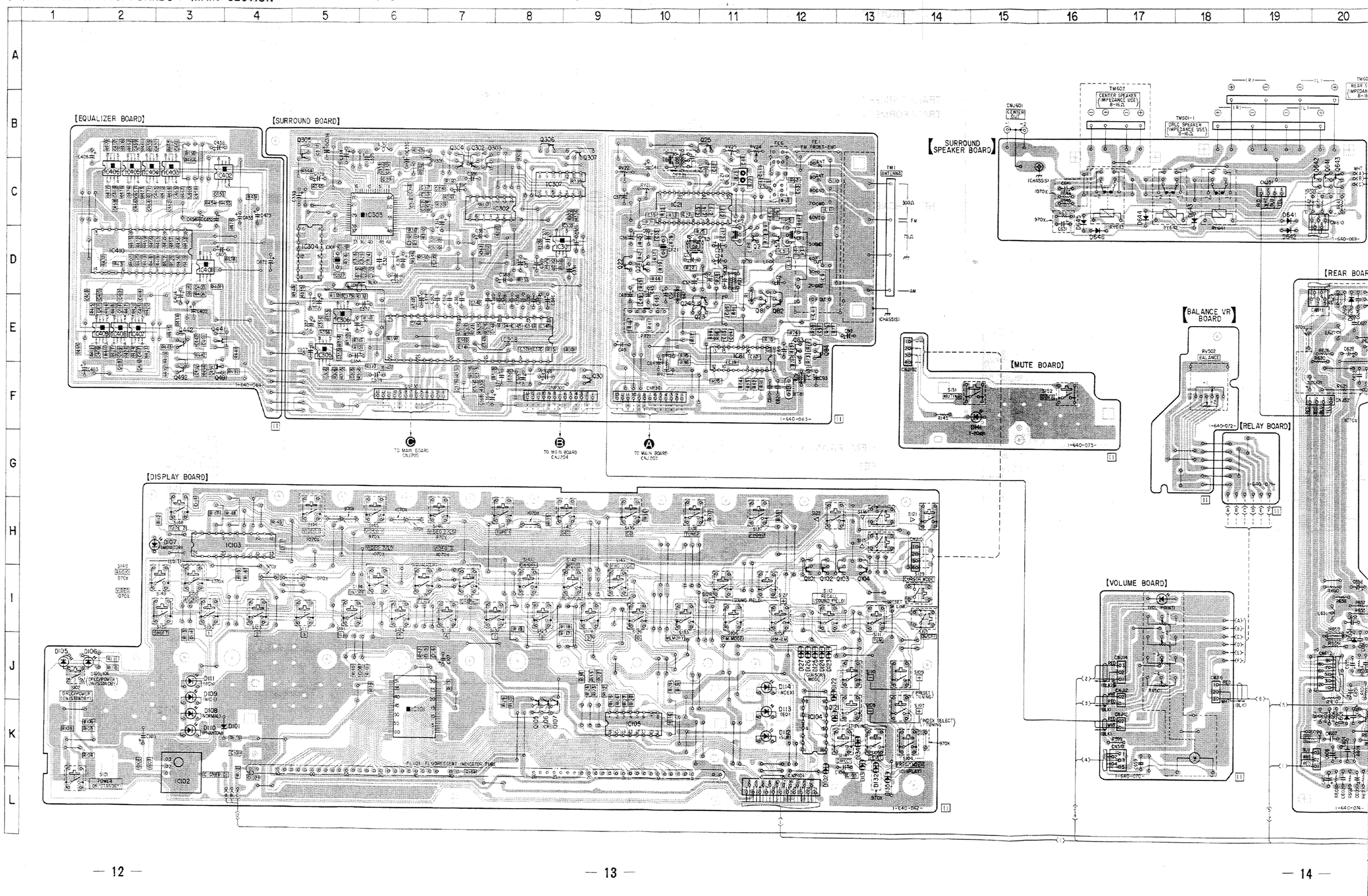
SEL2810A-C



SEL2813A-D

3-2. PRINTED WIRING BOARDS —MAIN SECTION—

• Refer to page 11 for Semiconductor Lead Layouts.



15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35

【SPEAKER OUT BOARD】

【TRANSFORMER-2 BOARD】

【TRANSFORMER-3 BOARD】

【TRANSFORMER-1 BOARD】

【VIDEO BOARD】

【REAR BOARD】

【MUTE BOARD】

【BALANCE VR BOARD】

【RELAY BOARD】

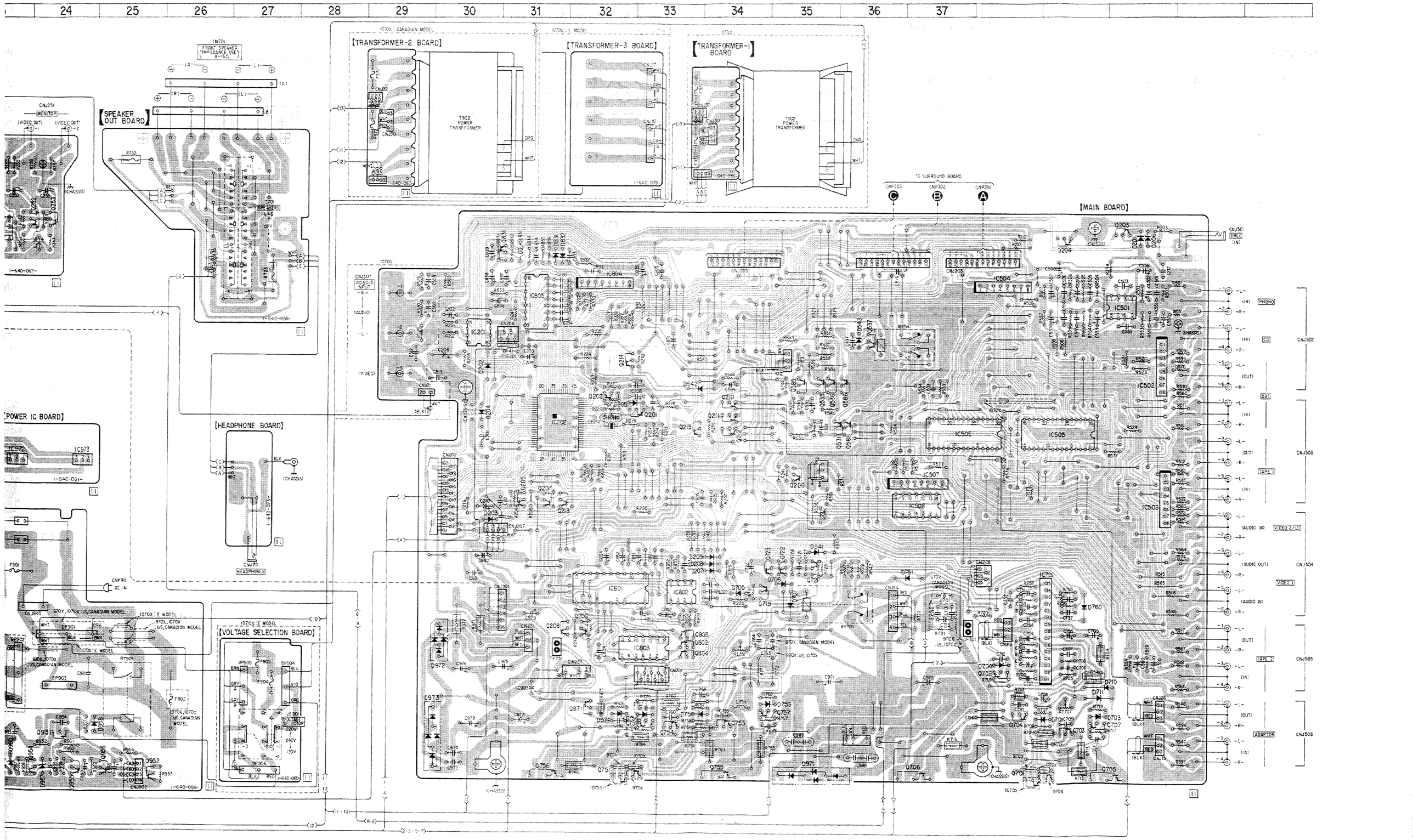
【POWER IC BOARD】

【HEADPHONE BOARD】

【POWER BOARD】

【VOLTAGE SELECTION BOARD】

【VOLUME BOARD】


24
25
26
27
28
29
30
31
32
33
34
35
36
37
【TRANSFORMER-2 BOARD】
【TRANSFORMER-3 BOARD】
【TRANSFORMER-1 BOARD】
【SPEAKER OUT BOARD】
【MAIN BOARD】
【POWER IC BOARD】
【HEADPHONE BOARD】
【VOLTAGE SELECTION BOARD】
TO SURROUND BOARD
CNP305
CNP302
CNP301
CNJ502
CNJ503
CNJ504
CNJ505
CNJ506
PHONO
CD
DAT
TAPE 1
TAPE 2
ADAPTION
VIDEO 2/TV
VIDEO 1
— 15 —
— 16 —
6

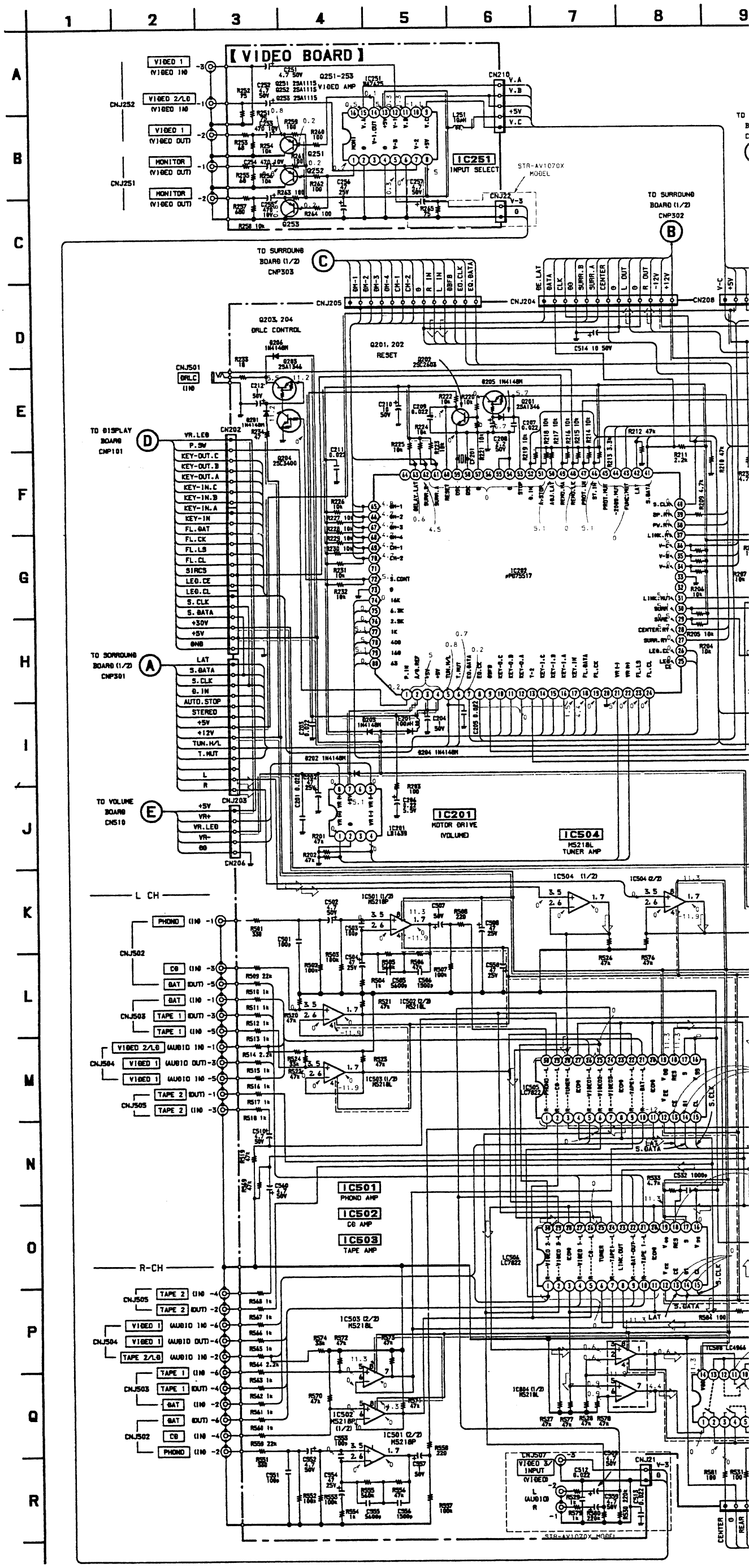
SEMICONDUCTOR LOCATION

Ref. No	Location	Ref. No	Location	Ref. No	Location
IC21	C-10	Q206	G-35	D108	K-3
IC81	E-11	Q207	H-31	D109	J-3
IC101	K-6	Q208	J-31	D110	K-3
IC102	K-3	Q209	J-32	D111	J-3
IC103	H-4	Q210	F-34	D112	K-12
IC104	K-12	Q211	G-34	D113	K-12
IC105	K-10	Q212	G-34	D114	J-12
IC201	E-30	Q213	H-31	D121	K-12
IC202	G-31	Q214	F-32	D122	J-12
IC251	D-23	Q215	G-33	D123	J-12
IC301	D-8	Q251	C-22	D124	J-12
IC302	C-7	Q252	C-24	D125	J-12
IC303	C-6	Q253	C-24	D126	J-12
IC304	D-5	Q301	F-9	D127	J-12
IC305	E-5	Q302	C-7	D131	K-13
IC306	E-5	Q303	C-7	D132	K-13
IC307	C-8	Q304	C-7	D134	K-13
IC308	E-7	Q305	B-5	D135	K-13
IC401	D-3	Q306	B-8	D141	F-15
IC402	C-4	Q307	B-9	D201	D-40
IC403	C-3	Q441	E-3	D202	F-30
IC404	C-2	Q442	E-3	D203	H-30
IC405	C-2	Q491	F-3	D204	F-30
IC406	C-2	Q492	F-3	D205	F-32
IC407	E-2	Q531	G-35	D206	D-40
IC408	E-2	Q535	F-35	D207	I-34
IC409	E-2	Q536	F-35	D208	I-34
IC410	D-2	Q537	E-36	D209	I-34
IC501	E-40	Q581	G-36	D541	H-35
IC502	F-40	Q585	F-35	D542	F-33
IC503	H-40	Q586	F-36	D543	E-36
IC504	E-38	Q601	K-20	D601	K-20
IC505	G-39	Q621	E-20	D621	E-20
IC506	G-37	Q641	C-20	D641	C-19
IC507	G-37	Q642	C-20	D642	D-19
IC508	H-37	Q643	C-20	D643	C-18
IC601	K-21	Q651	J-20	D644	C-17
IC621	E-21	Q701	K-38	D645	C-16
IC651	I-21	Q703	K-39	D646	D-16
IC701	I-39	Q704	K-38	D651	J-20
IC801	I-32	Q705	K-40	D701	K-38
IC802	I-33	Q706	K-37	D703	K-39
IC803	J-33	Q707	K-39	D704	J-38
IC804	D-32	Q708	J-38	D705	I-34
IC805	E-31	Q719	I-34	D706	I-35
IC971	G-22	Q721	I-35	D707	I-35
IC972	G-23	Q722	I-35	D710	K-39
IC973	G-24	Q723	I-34	D711	J-39
		Q751	K-32	D751	K-33
Q1	D-12	Q753	K-34	D753	K-34
Q2	D-11	Q754	K-33	D754	K-33
Q21	D-10	Q755	K-34	D760	I-39
Q22	D-9	Q756	K-31	D761	I-37
Q23	E-11	Q757	K-34	D831	D-31
Q24	E-11	Q758	K-33	D832	D-31
Q25	B-11	Q802	J-33	D951	K-22
Q81	E-11	Q803	J-33	D952	K-22
Q82	E-12	Q804	J-33	D953	K-22
Q83	E-12	Q831	D-30	D954	K-22
Q84	E-12	Q951	K-24	D955	K-22
Q101	I-12	Q952	K-25	D956	K-22
Q102	I-12	Q953	K-23	D957	K-24
Q103	I-13	Q954	K-23	D958	K-24
Q104	I-13	Q955	K-23	D959	K-23
Q105	K-8	Q956	K-25	D960	K-23
Q106	K-8	Q971	K-32	D971	K-35
Q107	K-8			D972	J-30
Q201	F-33	D101	K-4	D973	K-30
Q202	F-32	D102	K-12	D974	K-32
Q203	C-40	D105	J-1		
Q204	D-39	D106	J-2		
Q205	H-31	D107	H-3		

Note :

• O—— : parts extracted from the component side.

• Refer to page 30 for IC Block Diagrams.



【MAIN BOARD】

【REAR BOARD】

【POWER IC BOARD】

【POWER BOARD】

IC701 STK3122-MKII (1070X) STK3102-MKII (970X) POWER AMP

IC801 ELECTRON VOLUME

IC803 SELECTOR SWITCH

IC804 LOG AMP

IC805 SPECTRUM ANALYZER BAND PASS

IC505 FUNCTION SWITCH

IC508 LINE SWITCH

IC621 LM3875 SPEAKER AMP

IC601 S118752 SPEAKER AMP

IC651 S118752 SPEAKER AMP

IC971 REG.

IC972 REG.

IC973 REG.

Q205-214 INVERTER

Q531. 581 MUTING

Q535. 585 MUTING (-20DB)

Q536. 586 MUTING (PROT)

Q802-804 MUTING

Q207-209 1N4148M

Q705. 755 2SC2921 (1070X) 2SC3856 (970X) POWER AMP

Q706. 756 2SA1215 (1070X) 2SA1492 (970X) POWER AMP

Q707. 708. 757. 758 PROTECT OUT

Q721-725 PROTECTOR

Q719 RELAY DRIVE

Q703. 704. 753. 754 DRIVER

Q701. 751 BIAS

970X:CANADIAN MODEL

970X:US MODEL, 1070X

EXCEPT FOR 970X: CANADIAN MODEL

TO VOLUME BOARD CNJ14

TO VOLUME BOARD CNJ16

TO VOLUME BOARD CNJ12

CNJ11 CENTER G REAR

CNJ15 R G L

CNJ514 R L G G

CNJ52

CNJ207 PW.RY STOP +5V G

CNJ902

CN208 V-C +5V V.B V.A

CN611

CN612

CNJ27

CNJ28

CNJ506 ADAPTOR

CENTER. OUT
CENTER. RY
SURR. RY
LINK. RY
R. OUT
L. OUT
DC
G
IMP

CNB01

PW.RY. STOP

SP. RY

RY541

RELAY DRIVE

STOP DETECTOR

PROT. MUT

-20DB. MUT

FUNC. MUTE

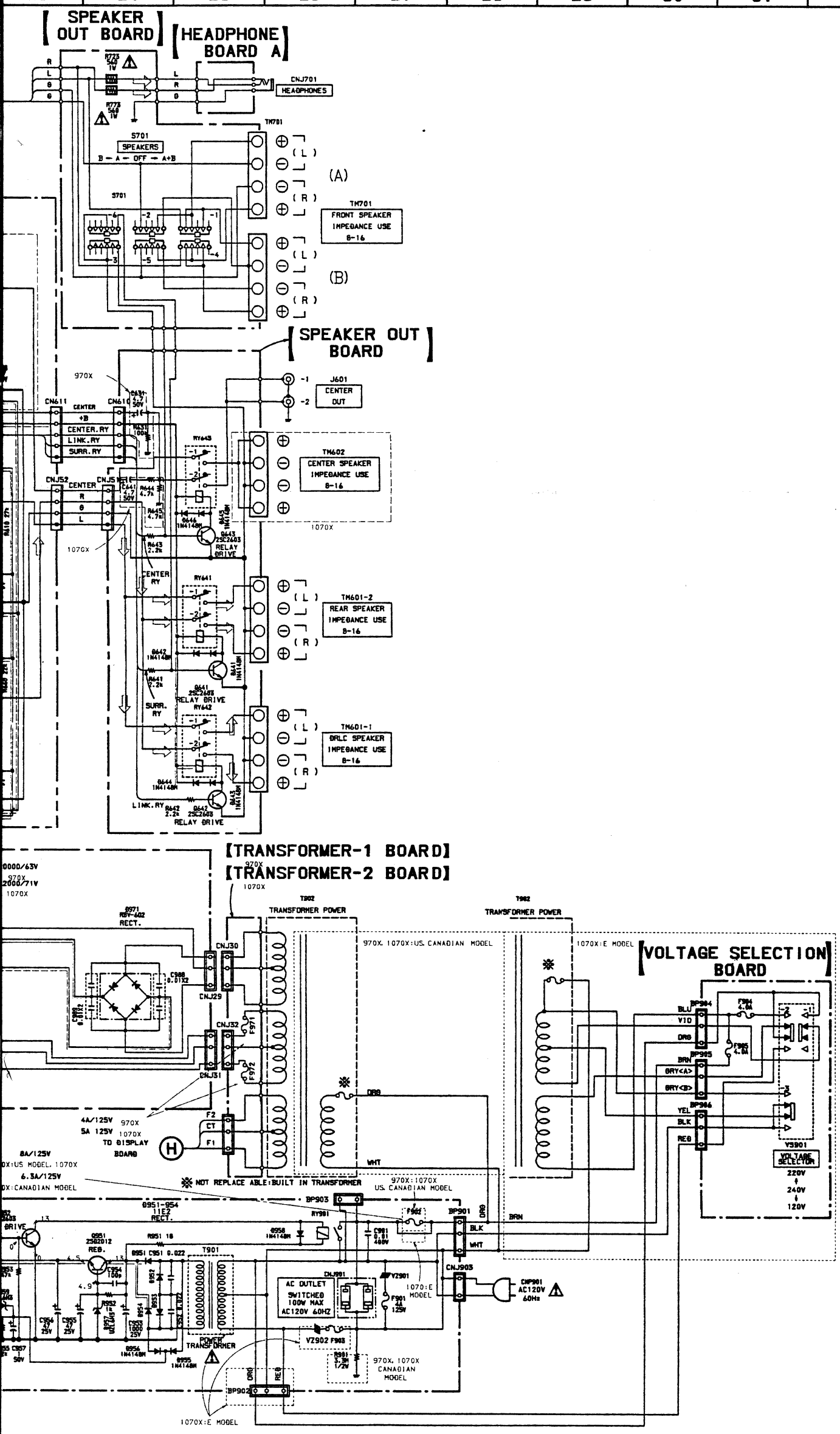
P. MUT

BIAS

4700/35V (1070X) 3300/35V (970X)

10000/63V 970X 12000/71V 1070X

8A/125V 970X:US MODEL, 107 6.3A/125V 970X:CANADIAN MOD



Note :

- All capacitors are in μF unless otherwise noted. pF : μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified. (SURROUND, EQUALIZER BOARD ⅛W)
- Components for right channel have same values as for left channel. Reference numbers are coded from
- : nonflammable resistor.
- : B+ Line
- : B− Line
- : adjustment for repair.
- AC voltage readings in the bias oscillator with a VTVM.
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
  no mark : 1070X
  ( ) : 970X
- Signal path.
  ⇨ : FM

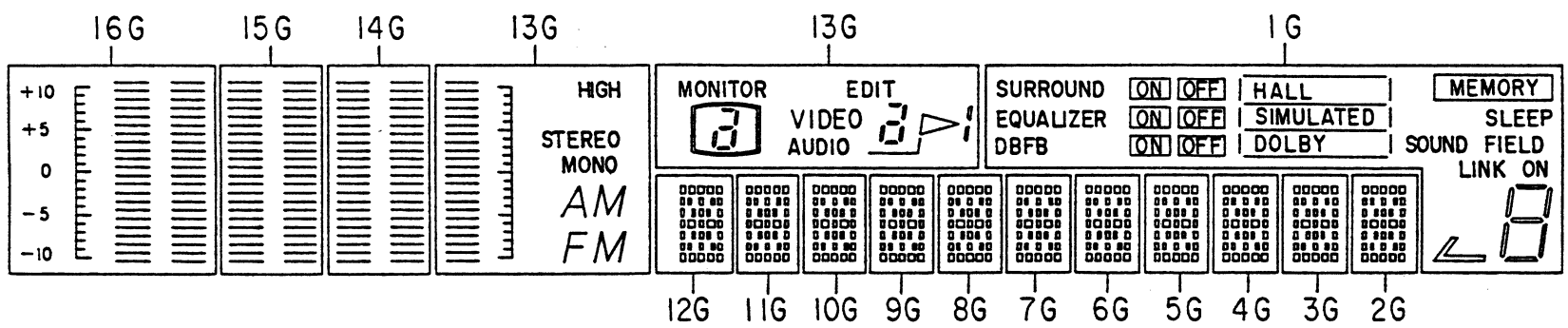
Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	**Note:** Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

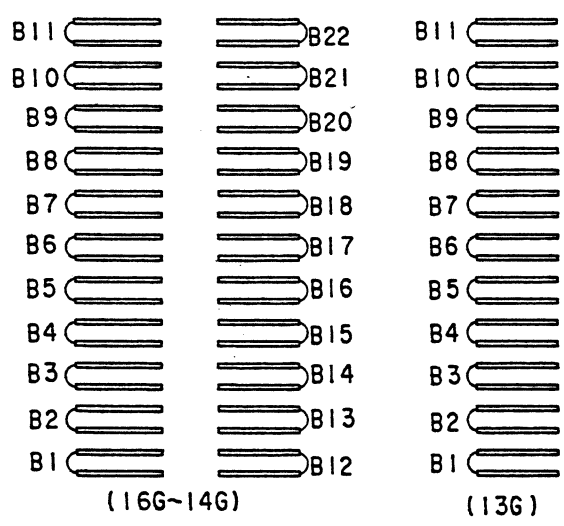
Note :

- All capacitors are in μ F unless otherwise noted. pF : μ μ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified. (SURROUND, EQUALIZER BOARD ⅛W)
- Components for right channel have same values as for left channel. Reference numbers are coded from
- : nonflammable resistor.
- : B+ Line
- : B− Line
- : adjustment for repair.
- AC voltage readings in the bias oscillator with a VTVM.
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  : FM

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	**Note:** Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

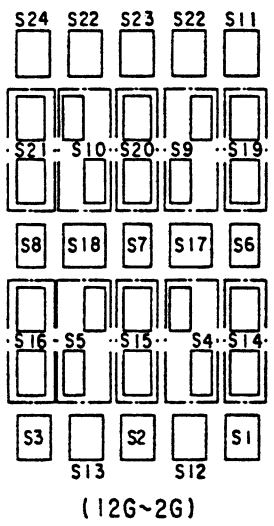
• FL101 FLUORECENT INDICATOR TUBE



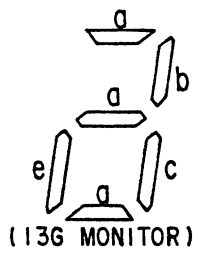


(16G~14G)

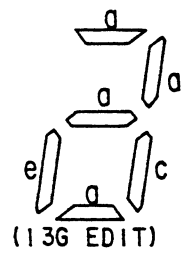
(13G)



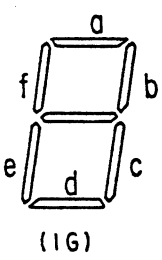
(12G~2G)



(13G MONITOR)

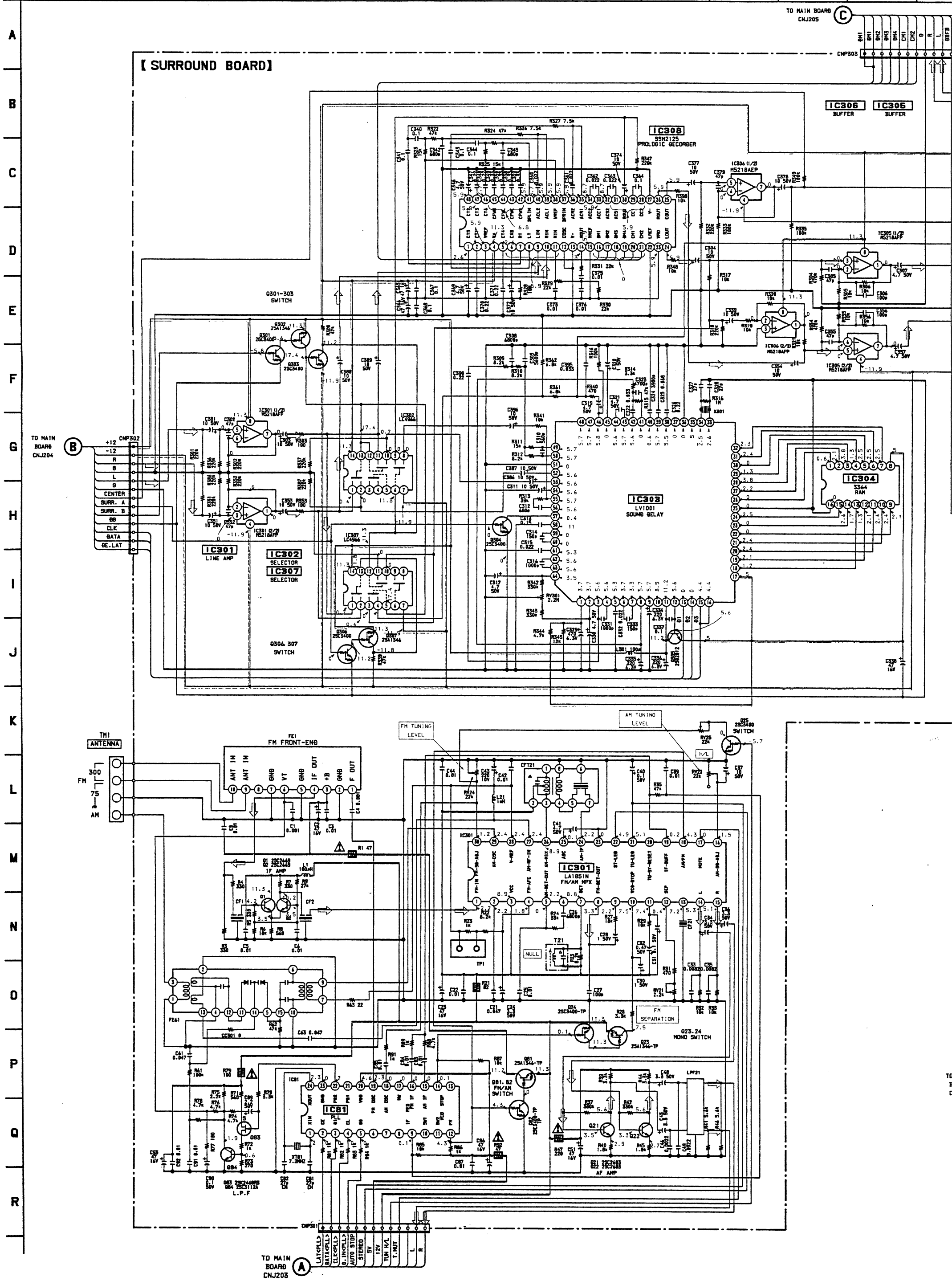


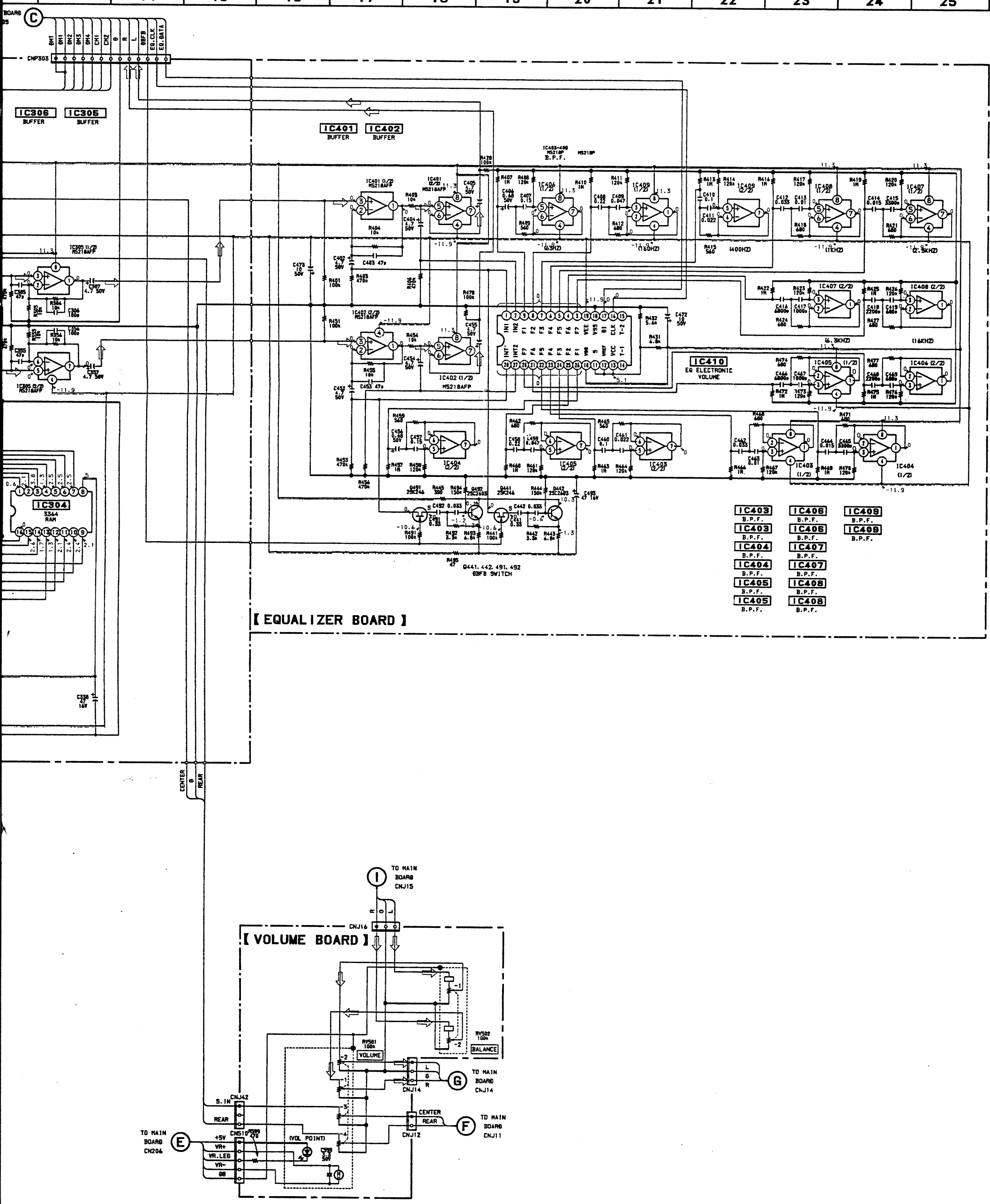
(13G EDIT)



(1G)

【 SURROUND BOARD】




CNP303
IC306 BUFFER
IC305 BUFFER
IC401 BUFFER
IC402 BUFFER
IC304 3364 RAM
IC410 EQ ELECTRONIC VOLUME
【EQUALIZER BOARD】
Q441. 442. 491. 492 BBFB SWITCH
IC403 B.P.F.
IC404 B.P.F.
IC405 B.P.F.
IC406 B.P.F.
IC407 B.P.F.
IC408 B.P.F.
IC409 B.P.F.
CENTER
REAR
TO MAIN BOARD CNJ15
CNJ16
【VOLUME BOARD】
RV501 100k VOLUME
RV502 100k BALANCE
CNJ14
CNJ12
CNJ42
CN510
TO MAIN BOARD CNJ14
TO MAIN BOARD CNJ11
TO MAIN BOARD CN206
(VOL POINT)

【DISPLAY BOARD】

FL101
FLUORESCENT INDICATOR TUBE

IC101
MSC1162
FL DRIVE

TO TRANSFORMER BOARD

TO MAIN BOARD CN202

CNP101

IC102
SIRCS

IC103
LED DRIVE

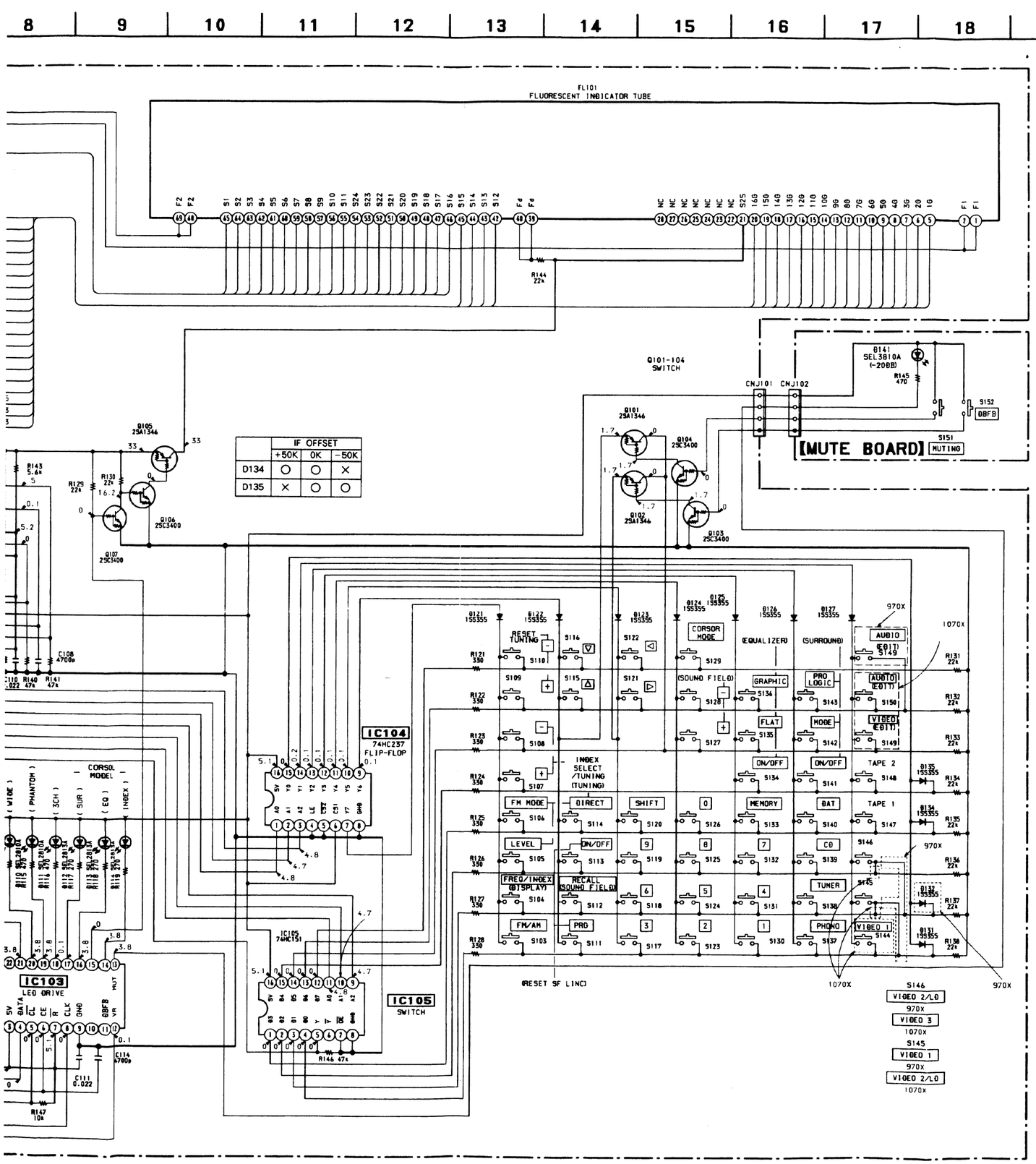
IC104
74HC237
FLIP-FLOP

IC105
74HC151
SWITCH

Q101-104
SWITCH

【MUTE BOARD】

	IF OFFSET		
	+50K	0K	-50K
D134	○	○	×
D135	×	○	○



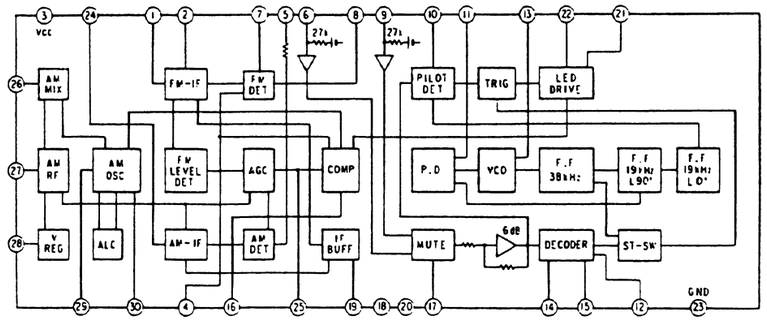
Note :

- All capacitors are in μF unless otherwise noted. pF : μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified. (SURROUND, EQUALIZER BOARD ⅛W)
- Components for right channel have same values as for left channel. Reference numbers are coded from
- : nonflammable resistor.
- : B+ Line
- : B− Line
- : adjustment for repair.
- AC voltage readings in the bias oscillator with a VTVM.
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : FM

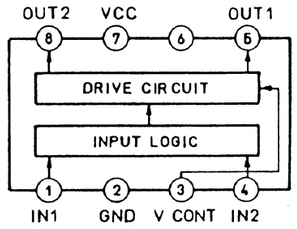
Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	**Note:** Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

• IC BLOCK DIAGRAMS

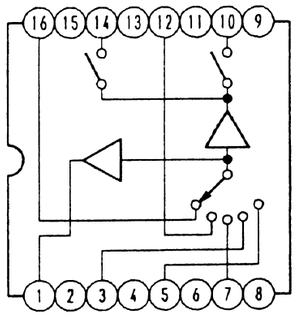
IC21 LA1851N



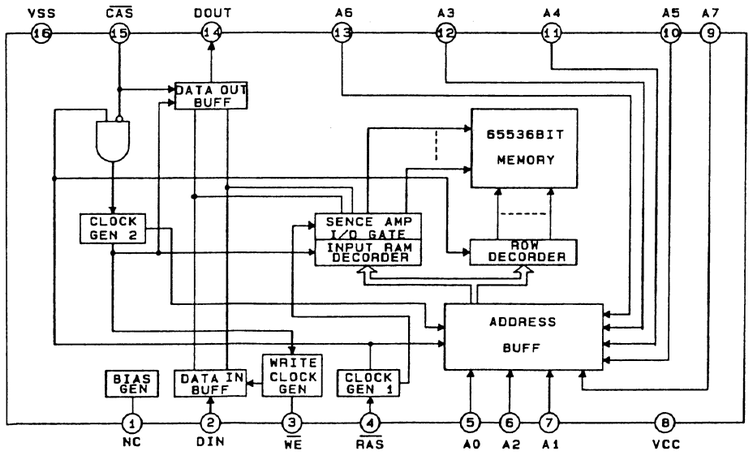
IC201 LB1639



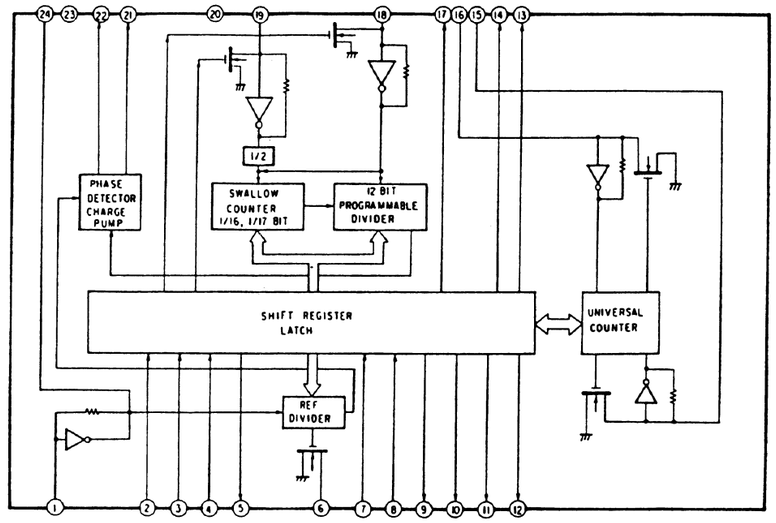
IC251 BA7625



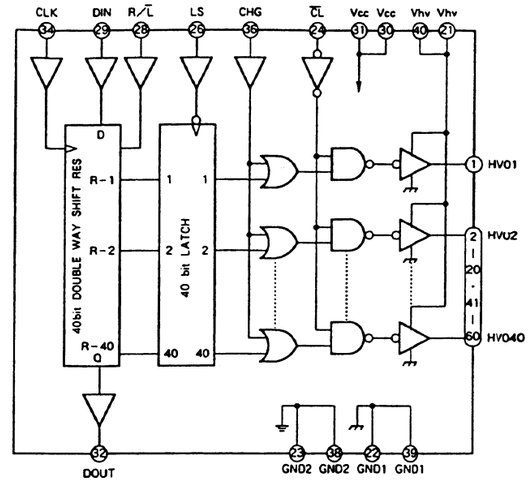
IC304 LM3364K-15



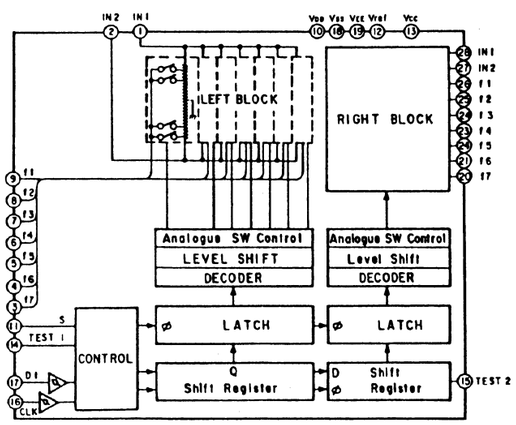
IC81 LC7218



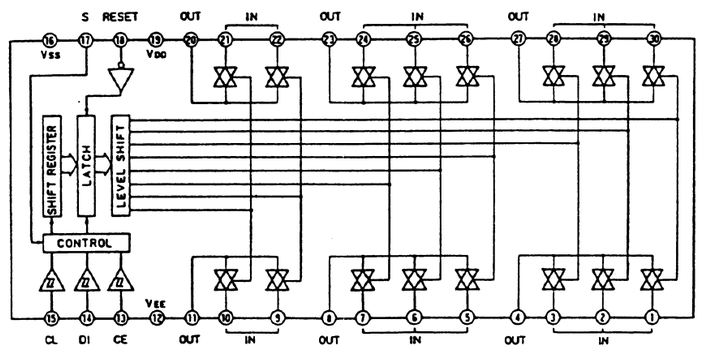
IC101 MSC1162GS



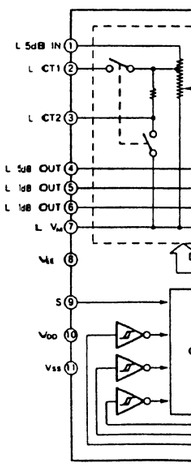
IC410 LC7520



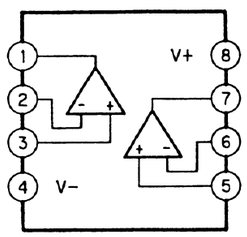
IC505, 506 LC7822



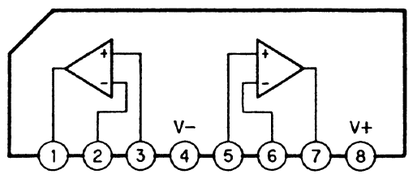
IC801 LC75



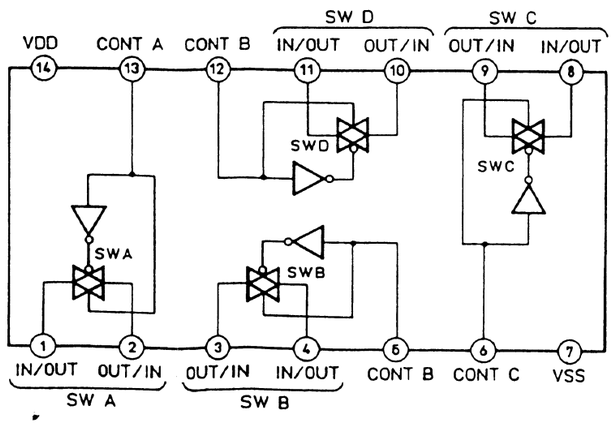
IC501, 802 M5218AP



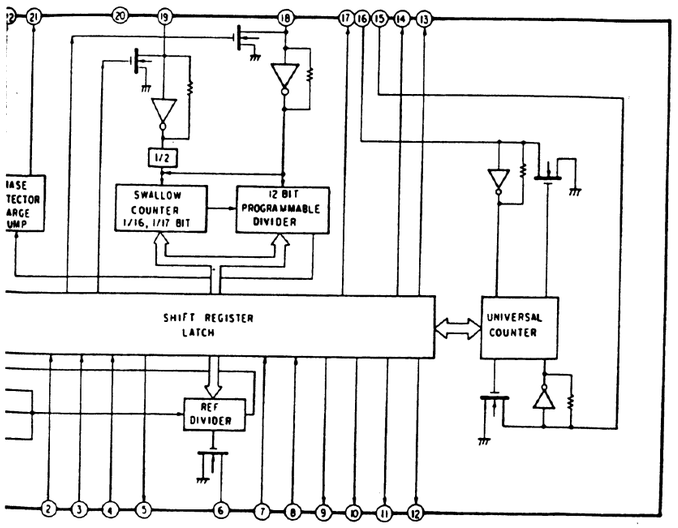
IC502–504, 507, 804 M5218AL



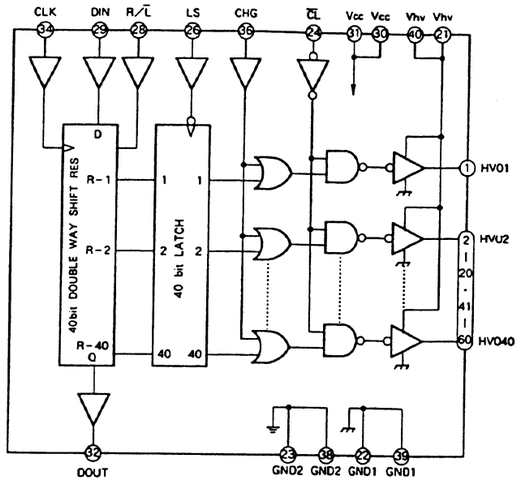
IC508, 803 LC4966



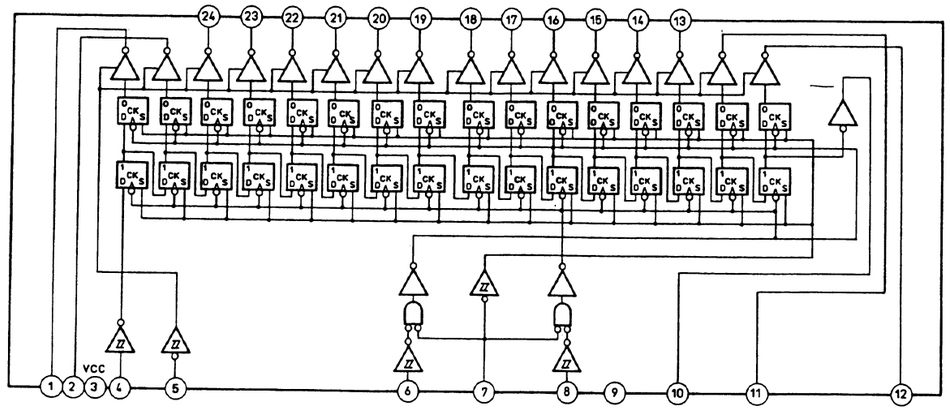
7218



IC101 MSC1162GS



IC103 M66311P



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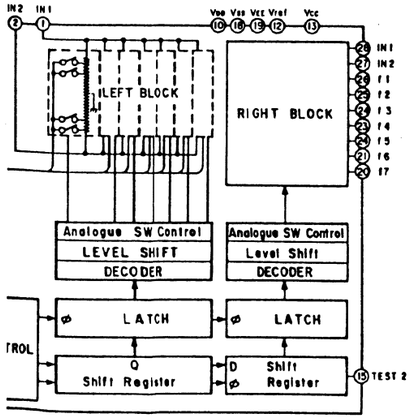
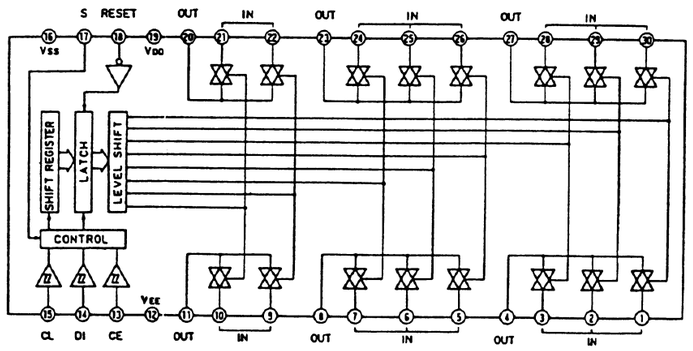
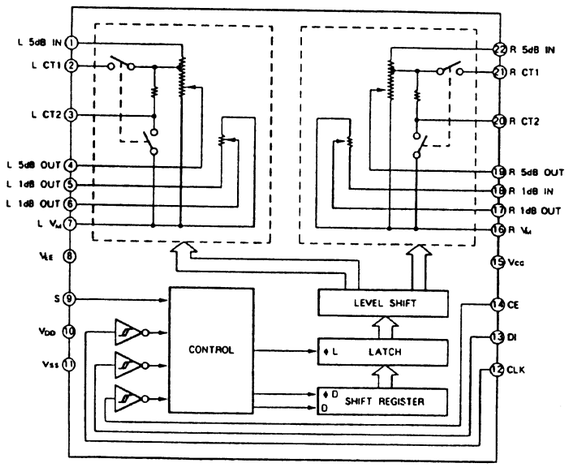


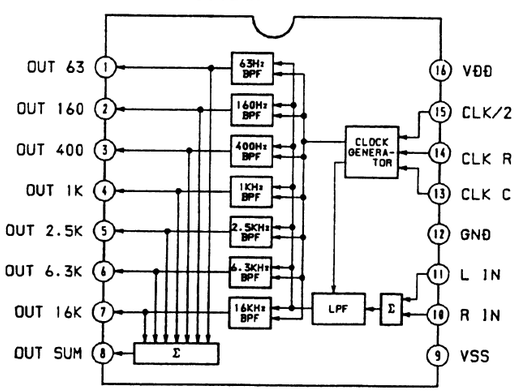
IC505, 506 LC7822



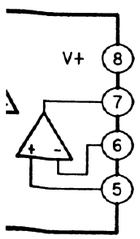
IC801 LC7535



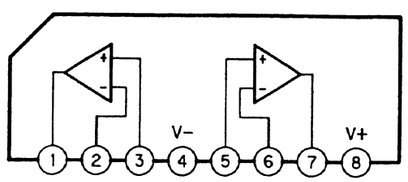
IC805 XR1091DCP



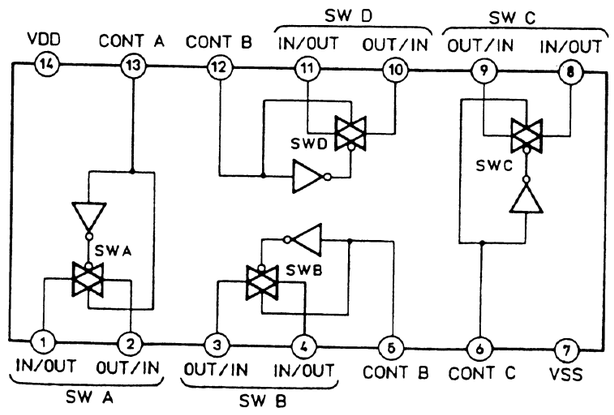
! M5218AP



IC502–504, 507, 804 M5218AL



IC508, 803 LC4966



SECTION 4
EXPLODED VIEWS

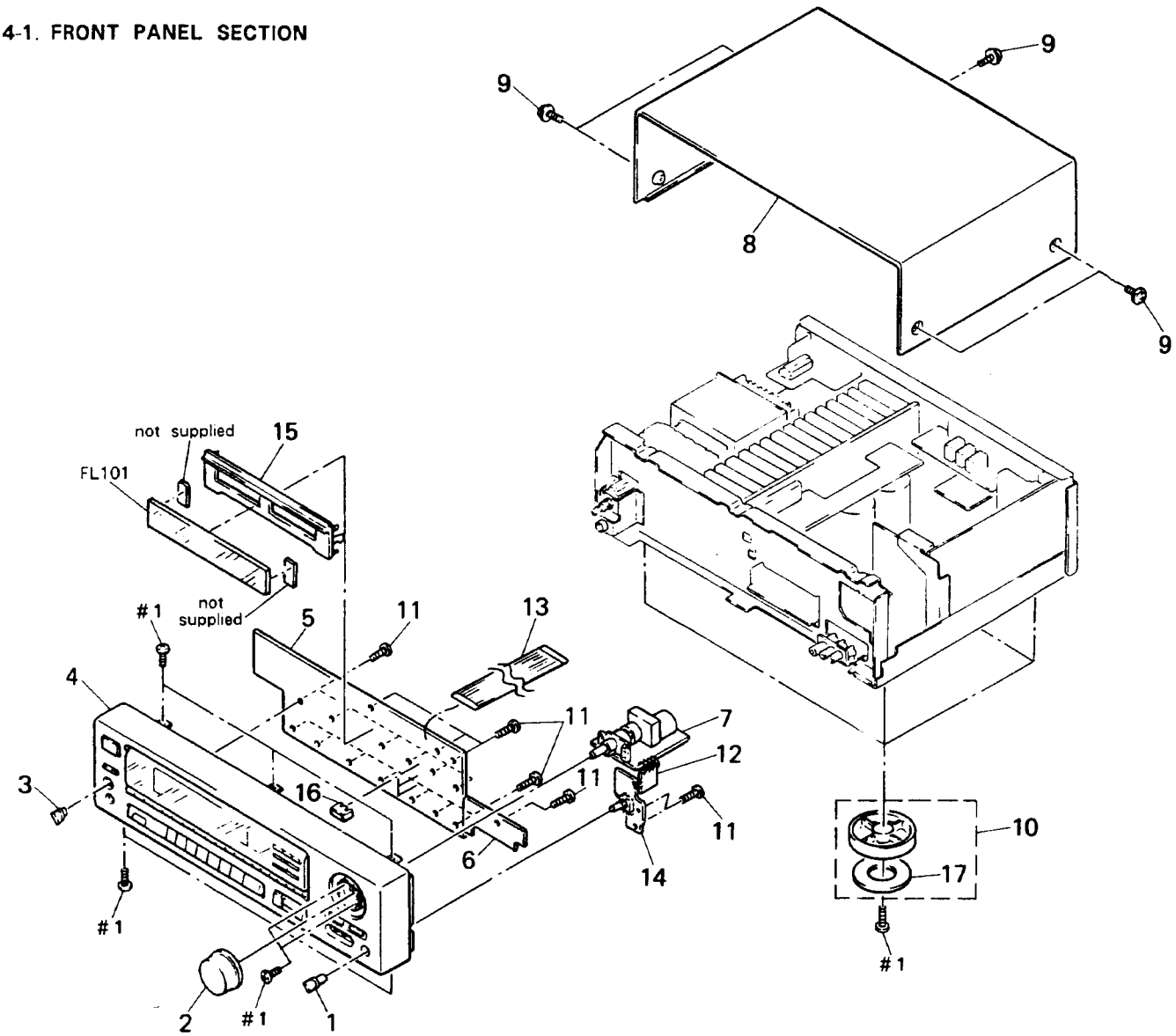
NOTE:

- −XX, −X mean standardized parts, so they may have some differences from the original one.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Color indication of Appearance Parts Example:
  KNOB, BALANCE (WHITE)....(RED)
  ↑ ↑
  Parts color Cabinet's color
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list is given in the last of this parts list.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

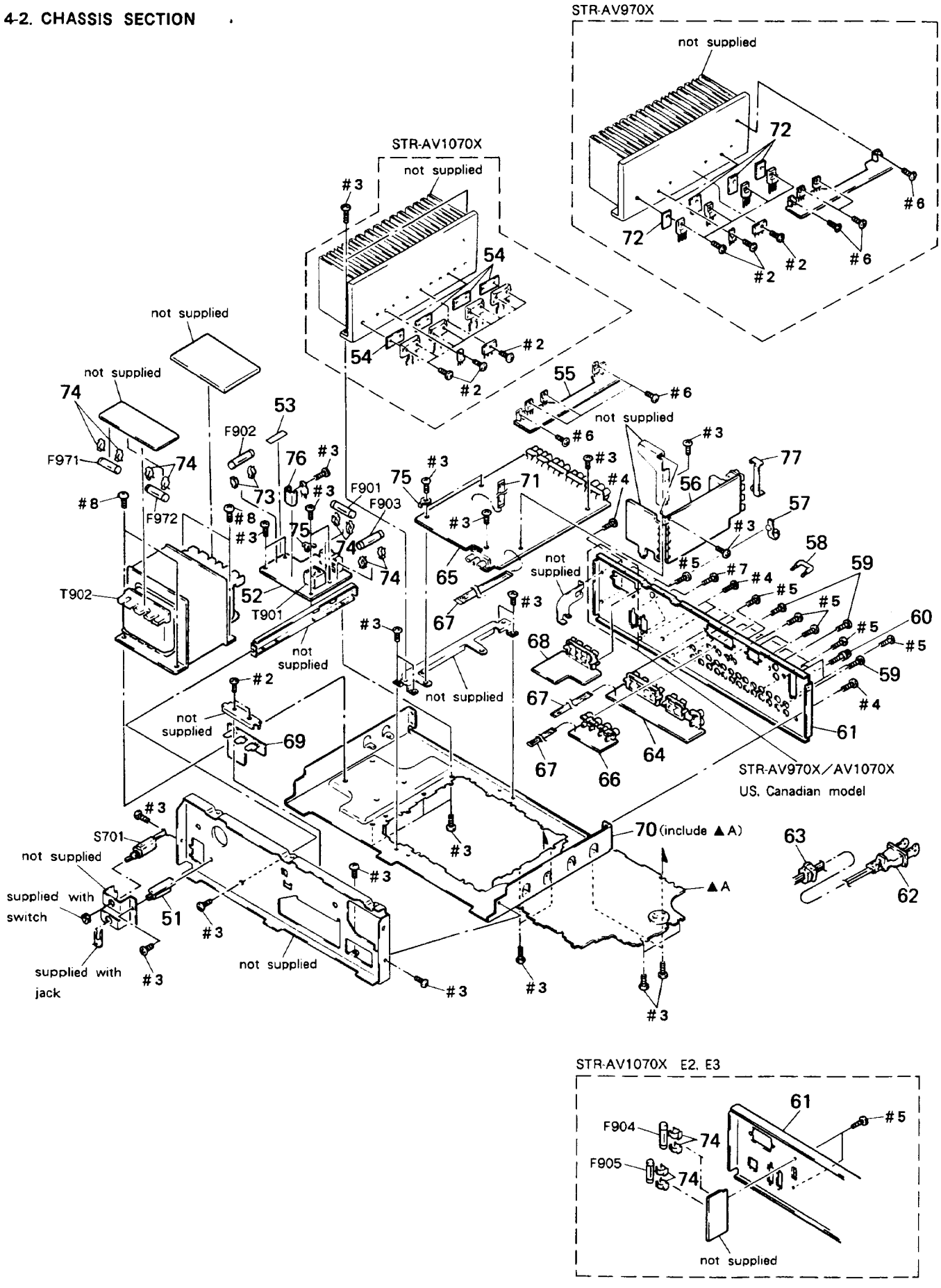
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifé.

4-1. FRONT PANEL SECTION



Ref.No.	Part No.	Description	Remark
1	4-925-014-01	KNOB (DIA. 10)	
2	X-4941-734-1	KNOB ASSY	
3	4-908-097-21	KNOB	
4	X-4941-741-1	PANEL ASSY, FRONT (1070X)	
4	X-4941-742-1	PANEL ASSY, FRONT (970X)	
5	* A-4345-259-A	DISPLAY BOARD, COMPLETE (1070X)	
5	* A-4345-270-A	DISPLAY BOARD, COMPLETE (970X)	
6	* 1-640-075-11	MUT BOARD	
7	* 1-640-070-11	VOLUME BOARD	
8	4-931-031-11	CASE	
9	3-704-366-01	SCREW (CASE) (M3X8)	
10	X-4885-950-1	FOOT ASSY	
11	4-928-635-01	SCREW, +BV (2.6X8) TAPPING	
12	* 1-640-071-11	RELAY BOARD	
13	1-690-091-11	WIRE, FLAT TYPE (21 CORE)	
14	* 1-640-072-11	BALANCE VR BOARD	
15	* 4-945-957-01	HOLDER, FL TUBE	
16	* 4-945-958-01	COVER, LAMP	
17	4-923-836-11	CUSHION	
FL101	1-519-647-11	INDICATOR TUBE, FLUORESCENT	

4-2. CHASSIS SECTION



Ref.No.	Part No.	Description	Remark
51	* 1-640-073-11	HP BOARD	
52	* A-4345-261-A	POWER BOARD, COMPLETE	
52	* A-4345-668-A	POWER BOARD, COMPLETE (1070X:E2, E3)	
53	* 3-701-946-28	LABEL (6.3A125V), FUSE (970X:Canadian)	
54	4-885-901-31	SHEET, RADIATION (1070X)	
55	* A-4345-266-A	REAR BOARD, COMPLETE (1070X)	
55	* A-4345-277-A	REAR BOARD, COMPLETE (970X)	
56	* A-4345-258-A	SURROUND TUNNER BOARD, COMPLETE	
57	* 2-379-614-01	HOOK	
58	1-535-706-11	PLUG, JUMPER	
59	7-621-849-00	SCREW, TAPPING	
60	3-706-165-00	SCREW	
61	* 4-945-384-01	PANEL, BACK (1070X:US)	
61	* 4-945-384-11	PANEL, BACK (1070X:Canadian)	
61	* 4-945-384-21	PANEL, BACK (970X:US)	
61	* 4-945-384-31	PANEL, BACK (970X:Canadian)	
61	* 4-945-384-41	PANEL, BACK (1070X:E2, E3)	
62	⚠ 1-575-975-11	CORD, POWER (1070X:US, Canadian, 970X)	
62	⚠ 1-590-074-11	CORD, POWER (1070X:E2, E3)	
62	⚠ 1-575-975-11	CORD, POWER (970X, 1070X:US, Canadian)	
63	* 3-703-244-00	BUSHING (2104), CORD	
64	* 1-640-069-11	SURR SP BOARD	
65	* A-4345-257-A	MAIN BOARD, COMPLETE (1070X:US, E2, E3)	
65	* A-4345-268-A	MAIN BOARD, COMPLETE (970X:US)	
65	* A-4345-570-A	MAIN BOARD, COMPLETE (970X:Canadian)	
65	* A-4345-569-A	MAIN BOARD, COMPLETE (1070X:Canadian)	
66	* 1-640-067-11	VIDEO BOARD	
67	1-575-779-11	WIRE, FLAT TYPE (5 CORE)	
68	* 1-640-068-11	SP OUT BOARD	

Ref.No.	Part No.	Description	Remark
69	* 1-640-061-11	POWER IC BOARD	
70	* 4-931-618-22	CHASSIS	
71	1-690-090-11	WIRE, FLAT TYPE (9 CORE)	
72	4-911-232-01	SHEET, INSULATING (970X)	
73	* 1-533-185-11	HOLDER, FUSE	
74	* 1-533-213-31	HOLDER, FUSE	
75	* 4-942-204-01	PLATE, GROUND	
76	* 3-309-144-21	HEAT SINK	
77	* 4-924-988-11	PLATE (ST), GROUND	
F901	⚠ 1-576-108-11	FUSE 4.0A (970X, 1070X:US, Canadian)	
F901	⚠ 1-532-350-00	FUSE, TIME-LAG 4.0A (1070X:E2, E3)	
F902	⚠ 1-532-509-00	FUSE, GLASS TUBE 6.3A (970X:Canadian)	
F902	⚠ 1-532-510-00	FUSE, GLASS TUBE 8A	
F903	⚠ 1-532-350-00	FUSE, TIME-LAG 4.0A (1070X:E2, E3)	
F904	⚠ 1-532-350-00	FUSE, TIME-LAG 4.0A (1070X:E2, E3)	
F905	⚠ 1-532-350-00	FUSE, TIME-LAG 4.0A (1070X:E2, E3)	
F971	⚠ 1-576-108-11	FUSE 4.0A (970X)	
F971	⚠ 1-576-109-11	FUSE 5.0A (1070X)	
F972	⚠ 1-576-108-11	FUSE 4.0A (970X)	
F972	⚠ 1-576-109-11	FUSE 5.0A (1070X)	
S701	1-572-291-11	SWITCH, ROTARY SLIDE (970X)	
S701	1-572-291-21	SWITCH, ROTARY SLIDE (1070X)	
T901	⚠ 1-448-517-21	TRANSFORMER, POWER (970X, 1070X:US, Canadian)	
T901	⚠ 1-448-523-11	TRANSFORMER, POWER (1070X:E2, E3)	
T902	⚠ 1-450-581-11	TRANSFORMER, POWER (1070X:US, Canadian)	
T902	⚠ 1-450-580-11	TRANSFORMER, POWER (970X:US)	
T902	⚠ 1-450-580-21	TRANSFORMER, POWER (970X:Canadian)	
T902	⚠ 1-450-632-11	TRANSFORMER, POWER (1070X:E2, E3)	

Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Note:
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

SECTION 5
ELECTRICAL PARTS LIST

MAIN POWER IC

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- −XX, −X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms
  METAL : Metal-film resistor
  METAL OXIDE : Metal Oxide-film resistor
  F : nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u: μ, for example:
  uA....: μA...., uPA....: μPA....
  uPB....: μPB...., uPC....: μPC....
  uPD....: μPD....
- CAPACITORS
  uF: μF
- COILS
  uH: μH

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

Ref. No.	Part No.	Description			Remark
	* A-4345-257-A	MAIN BOARD, COMPLETE (1070X:US, E2, E3)			
		**********			
	* A-4345-569-A	MAIN BOARD, COMPLETE (1070X:Canadian)			
		**********			
	* A-4345-268-A	MAIN BOARD, COMPLETE (970X:US)			
		**********			
	* A-4345-570-A	MAIN BOARD, COMPLETE (970X:Canadian)			
		**********			
	* 1-640-061-11	POWER IC BOARD			
		**********			
	* 1-533-213-31	HOLDER, FUSE			
	* 1-564-496-11	PIN, CONNECTOR 3P			
	* 4-942-204-01	PLATE, GROUND			
		< CAPACITOR >			
C201	1-164-097-11	CERAMIC	0.022uF		50V
C202	1-124-477-11	ELECT	47uF	20%	25V
C203	1-164-097-11	CERAMIC	0.022uF		50V
C204	1-124-903-11	ELECT	1uF	20%	50V
C205	1-164-097-11	CERAMIC	0.022uF		50V
C206	1-125-486-11	DUBLE LAYERS	0.22F		5.5V
C207	1-164-097-11	CERAMIC	0.022uF		50V
C208	1-124-925-11	ELECT	2.2uF	20%	100V
C209	1-164-097-11	CERAMIC	0.022uF		50V
C210	1-124-907-11	ELECT	10uF	20%	50V
C211	1-164-097-11	CERAMIC	0.022uF		50V
C212	1-124-903-11	ELECT	1uF	20%	50V
C214	1-162-286-31	CERAMIC	220PF	10%	50V
C215	1-162-286-31	CERAMIC	220PF	10%	50V
C216	1-162-286-31	CERAMIC	220PF	10%	50V
C217	1-162-286-31	CERAMIC	220PF	10%	50V
C218	1-162-286-31	CERAMIC	220PF	10%	50V
C219	1-162-286-31	CERAMIC	220PF	10%	50V
C220	1-162-286-31	CERAMIC	220PF	10%	50V
C221	1-164-097-11	CERAMIC	0.022uF		50V
C222	1-164-097-11	CERAMIC	0.022uF		50V
C223	1-164-097-11	CERAMIC	0.022uF		50V
C501	1-162-282-31	CERAMIC	100PF	10%	50V
C502	1-124-927-11	ELECT	4.7uF	20%	100V
C503	1-162-282-31	CERAMIC	100PF	10%	50V
C504	1-124-477-11	ELECT	47uF	20%	25V
C505	1-130-480-00	MYLAR	0.0056uF	5%	50V
C506	1-130-473-00	MYLAR	0.0015uF	5%	50V
C507	1-124-903-11	ELECT	1uF	20%	50V
C508	1-124-477-11	ELECT	47uF	20%	25V
C509	1-124-927-11	ELECT	4.7uF	20%	100V (1070X)
C510	1-124-927-11	ELECT	4.7uF	20%	100V
C511	1-164-097-11	CERAMIC	0.022uF		50V
C512	1-164-097-11	CERAMIC	0.022uF		50V (1070X)
C513	1-164-097-11	CERAMIC	0.022uF		50V (1070X)
C514	1-124-907-11	ELECT	10uF	20%	50V
C531	1-124-927-11	ELECT	4.7uF	20%	100V
C532	1-162-294-31	CERAMIC	0.001uF	10%	50V
C535	1-124-927-11	ELECT	4.7uF	20%	100V
C536	1-124-464-11	ELECT	0.22uF	20%	50V
C537	1-124-907-11	ELECT	10uF	20%	50V
C551	1-162-282-31	CERAMIC	100PF	10%	50V
C552	1-124-927-11	ELECT	4.7uF	20%	100V
C553	1-162-282-31	CERAMIC	100PF	10%	50V
C554	1-124-477-11	ELECT	47uF	20%	25V
C555	1-130-480-00	MYLAR	0.0056uF	5%	50V
C556	1-130-473-00	MYLAR	0.0015uF	5%	50V
C557	1-124-903-11	ELECT	1uF	20%	50V
C558	1-124-477-11	ELECT	47uF	20%	25V
C559	1-124-927-11	ELECT	4.7uF	20%	100V (1070X)

MAIN POWER IC

Ref. No.	Part No.	Description			Remark
C560	1-124-927-11	ELECT	4.7uF	20%	100V
C701	1-124-927-11	ELECT	4.7uF	20%	100V
C702	1-162-288-31	CERAMIC	330PF	10%	50V
C703	1-102-989-00	CERAMIC	68PF	5%	500V
C704	1-102-316-00	CERAMIC	15PF	5%	500V
C705	1-124-929-11	ELECT	22uF	20%	100V
C706	1-124-443-00	ELECT	100uF	20%	10V
C707	1-102-230-00	CERAMIC	4PF	0.25PF	500V
C708	1-124-910-11	ELECT	47uF	20%	50V
C709	1-102-233-00	CERAMIC	33PF	10%	500V
C710	1-102-233-00	CERAMIC	33PF	10%	500V
C711	1-136-165-00	FILM	0.1uF	5%	50V
C712	1-136-165-00	FILM	0.1uF	5%	50V
C713	1-130-487-00	MYLAR	0.022uF	5%	50V
				(970X:US, 1070X)	
C713	1-130-491-00	MYLAR	0.047uF	5%	50V
				(970X:Canadian)	
C714	1-130-491-00	MYLAR	0.047uF	5%	50V
				(970X:Canadian)	
C721	1-136-165-00	FILM	0.1uF	5%	50V
C722	1-124-471-00	ELECT	1000uF	20%	6.3V
C751	1-124-927-11	ELECT	4.7uF	20%	100V
C752	1-162-288-31	CERAMIC	330PF	10%	50V
C753	1-102-989-00	CERAMIC	68PF	5%	500V
C754	1-102-316-00	CERAMIC	15PF	5%	500V
C755	1-124-929-11	ELECT	22uF	20%	100V
C756	1-124-443-00	ELECT	100uF	20%	10V
C757	1-102-230-00	CERAMIC	4PF	0.25PF	500V
C758	1-124-910-11	ELECT	47uF	20%	50V
C759	1-102-233-00	CERAMIC	33PF	10%	500V
C760	1-102-233-00	CERAMIC	33PF	10%	500V
C761	1-136-165-00	FILM	0.1uF	5%	50V
C762	1-136-165-00	FILM	0.1uF	5%	50V
C763	1-130-487-00	MYLAR	0.022uF	5%	50V
				(970X:US, 1070X)	
C763	1-130-491-00	MYLAR	0.047uF	5%	50V
				(970X:Canadian)	
C764	1-130-491-00	MYLAR	0.047uF	5%	50V
				(970X:Canadian)	
C801	1-124-927-11	ELECT	4.7uF	20%	100V
C802	1-124-927-11	ELECT	4.7uF	20%	100V
C803	1-124-927-11	ELECT	4.7uF	20%	100V
C804	1-124-927-11	ELECT	4.7uF	20%	100V
C805	1-164-087-11	CERAMIC	0.0015uF	10%	50V
C831	1-124-907-11	ELECT	10uF	20%	50V
C832	1-162-282-31	CERAMIC	100PF	10%	50V
C833	1-124-907-11	ELECT	10uF	20%	50V
C834	1-124-907-11	ELECT	10uF	20%	50V
C835	1-124-477-11	ELECT	47uF	20%	25V

Ref. No.	Part No.	Description			Remark
C836	1-162-294-31	CERAMIC	0.001uF	10%	50V
C837	1-124-907-11	ELECT	10uF	20%	50V
C838	1-124-907-11	ELECT	10uF	20%	50V
C839	1-124-477-11	ELECT	47uF	20%	25V
C851	1-124-927-11	ELECT	4.7uF	20%	100V
C852	1-124-927-11	ELECT	4.7uF	20%	100V
C853	1-124-927-11	ELECT	4.7uF	20%	100V
C854	1-124-927-11	ELECT	4.7uF	20%	100V
C971	1-125-690-11	ELECT	12000uF	20%	71V
					(1070X)
C971	1-125-677-11	ELECT	10000uF	20%	63V
					(970X)
C972	1-125-690-11	ELECT	12000uF	20%	71V
					(1070X)
C972	1-125-677-11	ELECT	10000uF	20%	63V
					(970X)
C973	1-164-097-11	CERAMIC	0.022uF		50V
C974	1-164-097-11	CERAMIC	0.022uF		50V
C975	1-124-618-11	ELECT	2200uF	20%	35V
C976	1-126-105-11	ELECT	1000uF	20%	35V
C977	1-126-955-11	ELECT	4700uF	20%	35V
					(1070X)
C977	1-126-954-11	ELECT	3300uF	20%	35V
					(970X)
C978	1-126-955-11	ELECT	4700uF	20%	35V
					(1070X)
C978	1-126-954-11	ELECT	3300uF	20%	35V
					(970X)
C979	1-124-477-11	ELECT	47uF	20%	25V
C980	1-124-477-11	ELECT	47uF	20%	25V
C981	1-124-477-11	ELECT	47uF	20%	25V
C982	1-124-907-11	ELECT	10uF	20%	50V
C983	1-124-907-11	ELECT	10uF	20%	50V
C984	1-164-097-11	CERAMIC	0.022uF		50V
C985	1-164-097-11	CERAMIC	0.022uF		50V
C986	1-164-097-11	CERAMIC	0.022uF		50V
C988	1-102-394-11	CERAMIC	0.01uF		250V
C989	1-102-394-11	CERAMIC	0.01uF		250V

< FILTER >

CF201	1-577-101-11	VIBRATOR, CERAMIC

< CONNECTOR >

CN202	1-568-838-11	SOCKET, CONNECTOR 21P
CN206 *	1-568-824-11	SOCKET, CONNECTOR 5P
CN208 *	1-568-824-11	SOCKET, CONNECTOR 5P
CN801 *	1-568-828-11	SOCKET, CONNECTOR 9P
CNJ11 *	1-564-506-11	PLUG, CONNECTOR 3P

MAIN POWER IC

Ref. No.	Part No.	Description	Remark
CNJ13	* 1-564-506-11	PLUG, CONNECTOR 3P	
CNJ15	* 1-564-506-11	PLUG, CONNECTOR 3P	
CNJ21	* 1-564-505-11	PLUG, CONNECTOR 2P (1070X)	
CNJ54	* 1-564-241-00	PIN, CONNECTOR 4P	
CNJ203	* 1-573-192-11	CONNECTOR, BOARD TO BOARD 13P	
CNJ204	* 1-573-192-11	CONNECTOR, BOARD TO BOARD 13P	
CNJ205	* 1-573-192-11	CONNECTOR, BOARD TO BOARD 13P	
CNJ207	* 1-564-338-00	PIN, CONNECTOR 4P	
CNJ501	1-566-819-31	JACK 1P(DRLC)	
CNJ502	1-565-320-11	JACK, PIN 6P(PHONO/CD/DAT)	
CNJ503	1-565-320-11	JACK, PIN 6P (DAT/TAPE 1)	
CNJ504	1-565-320-11	JACK, PIN 6P (VIDEO 2/LD, VIDEO 1)	
CNJ505	1-565-258-11	JACK, PIN 4P (TAPE 2)	
CNJ506	1-565-258-11	JACK, PIN 4P (ADAPTOR)	
CNJ507	1-580-174-31	JACK, PIN (3P FRONT) (VIDEO 3 INPUT) (1070X)	
CNJ901	* 1-573-495-11	PLUG, CONNECTOR 6P	
CNJ902	* 1-565-482-11	CONNECTOR, BOARD TO BOARD 6P	
		< DIODE >	
D201	8-719-912-20	DIODE 1SS120	
D202	8-719-912-20	DIODE 1SS120	
D203	8-719-912-20	DIODE 1SS120	
D204	8-719-912-20	DIODE 1SS120	
D205	8-719-912-20	DIODE 1SS120	
D206	8-719-912-20	DIODE 1SS120	
D207	8-719-912-20	DIODE 1SS120	
D208	8-719-912-20	DIODE 1SS120	
D209	8-719-912-20	DIODE 1SS120	
D541	8-719-912-20	DIODE 1SS120	
D542	8-719-912-20	DIODE 1SS120	
D543	8-719-912-20	DIODE 1SS120	
D544	8-719-912-20	DIODE 1SS120	
D701	8-719-912-20	DIODE 1SS120	
D703	8-719-912-20	DIODE 1SS120	
D704	8-719-912-20	DIODE 1SS120	
D705	8-719-912-20	DIODE 1SS120	
D706	8-719-912-20	DIODE 1SS120	
D707	8-719-912-20	DIODE 1SS120	
D710	8-719-300-04	DIODE SV-04	
D711	8-719-300-04	DIODE SV-04	
D751	8-719-912-20	DIODE 1SS120	
D753	8-719-912-20	DIODE 1SS120	
D754	8-719-912-20	DIODE 1SS120	
D760	8-719-300-04	DIODE SV-04	
D761	8-719-300-04	DIODE SV-04	
D831	8-719-912-20	DIODE 1SS120	
D832	8-719-912-20	DIODE 1SS120	
D971	8-719-302-37	DIODE RBV-602	
D972	8-719-511-40	DIODE S1VB40	
D973	8-719-311-72	DIODE RBA-406H-01	
D974	8-719-934-23	DIODE HZS30-3L	
		< IC >	
IC201	8-759-820-62	IC LB1639	
IC202	8-759-153-57	IC uPD75517GF-016-3B9	
IC501	8-759-634-51	IC M5218AP	
IC502	8-759-634-50	IC M5218AL	
IC503	8-759-634-50	IC M5218AL	
IC504	8-759-634-50	IC M5218AL	
IC505	8-759-805-14	IC LC7822	
IC506	8-759-805-14	IC LC7822	
IC507	8-759-634-50	IC M5218AL	
IC508	8-759-801-01	IC LC4966	
IC701	8-749-921-85	IC STK-3122-3 (1070X)	
IC701	8-749-920-70	IC STK-3102-MK3 (970X)	
IC801	8-759-820-11	IC LC7535	
IC802	8-759-634-51	IC M5218AP	
IC803	8-759-801-01	IC LC4966	
IC804	8-759-634-50	IC M5218AL	
IC805	8-759-991-11	IC XR1091DCP	
IC971	8-759-604-39	IC M5F78M12L	
IC972	8-759-604-45	IC M5F79M12L	
IC973	8-759-604-35	IC M5F78M05L	
		< COIL >	
L201	1-410-521-11	INDUCTOR 100uH	
L701	* 1-420-872-00	COIL, AIR CORE	
L751	* 1-420-872-00	COIL, AIR CORE	
L831	1-410-521-11	INDUCTOR 100uH	
L832	1-410-521-11	INDUCTOR 100uH	
		< TRANSISTOR >	
Q201	8-729-900-63	TRANSISTOR DTA124ES	
Q202	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q203	8-729-900-63	TRANSISTOR DTA124ES	
Q204	8-729-900-36	TRANSISTOR DTC124ES	
Q205	8-729-900-36	TRANSISTOR DTC124ES	
Q206	8-729-900-63	TRANSISTOR DTA124ES	
Q207	8-729-900-36	TRANSISTOR DTC124ES	
Q208	8-729-900-63	TRANSISTOR DTA124ES	
Q209	8-729-900-36	TRANSISTOR DTC124ES	
Q210	8-729-900-63	TRANSISTOR DTA124ES	

MAIN POWER IC

Ref. No.	Part No.	Description	Remark
Q211	8-729-900-63	TRANSISTOR DTA124ES	
Q212	8-729-900-63	TRANSISTOR DTA124ES	
Q213	8-729-900-63	TRANSISTOR DTA124ES	
Q214	8-729-900-63	TRANSISTOR DTA124ES	
Q215	8-729-900-36	TRANSISTOR DTC124ES	
Q531	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q535	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q536	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q537	8-729-900-80	TRANSISTOR DTC114ES	
Q581	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q585	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q586	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q701	8-729-209 15	TRANSISTOR 2SD2012	
Q703	8-729-141-46	TRANSISTOR 2SC4431-LK	
Q704	8-729-141-37	TRANSISTOR 2SA1684-LK	
Q705	8-729-320-71	TRANSISTOR 2SC3856-OY (970X)	
Q705	8-729-320-96	TRANSISTOR 2SC2921-OPY (1070X)	
Q706	8-729-320-72	TRANSISTOR 2SA1492-OY (970X)	
Q706	8-729-320-73	TRANSISTOR 2SA1215-OY (1070X)	
Q707	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q708	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q719	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q721	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
Q722	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q723	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q751	8-729-209 15	TRANSISTOR 2SD2012	
Q753	8-729-141-46	TRANSISTOR 2SC4431-LK	
Q754	8-729-141-37	TRANSISTOR 2SA1684-LK	
Q755	8-729-320-71	TRANSISTOR 2SC3856-OY (970X)	
Q755	8-729-320-96	TRANSISTOR 2SC2921-OPY (1070X)	
Q756	8-729-320-72	TRANSISTOR 2SA1492-OY (970X)	
Q756	8-729-320-73	TRANSISTOR 2SA1215-OY (1070X)	
Q757	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q758	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q802	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q803	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q804	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q831	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q971	8-729-140-96	TRANSISTOR 2SD774-34	

< RESISTOR >

R201	1-249-437-11	CARBON	47K	5%	1/4W
R202	1-249-437-11	CARBON	47K	5%	1/4W
R203	1-249-405-11	CARBON	100	5%	1/4W
R204	1-249-429-11	CARBON	10K	5%	1/4W
R205	1-249-429-11	CARBON	10K	5%	1/4W
R206	1-249-429-11	CARBON	10K	5%	1/4W
R207	1-249-429-11	CARBON	10K	5%	1/4W
R208	1-249-429-11	CARBON	10K	5%	1/4W
R209	1-249-425-11	CARBON	4.7K	5%	1/4W
R210	1-249-437-11	CARBON	47K	5%	1/4W
R211	1-249-421-11	CARBON	2.2K	5%	1/4W
R212	1-249-437-11	CARBON	47K	5%	1/4W
R213	1-249-423-11	CARBON	3.3K	5%	1/4W
R214	1-249-429-11	CARBON	10K	5%	1/4W
R215	1-249-429-11	CARBON	10K	5%	1/4W
R216	1-249-429-11	CARBON	10K	5%	1/4W
R217	1-249-429-11	CARBON	10K	5%	1/4W
R218	1-249-429-11	CARBON	10K	5%	1/4W
R219	1-249-429-11	CARBON	10K	5%	1/4W
R220	1-249-429-11	CARBON	10K	5%	1/4W
R221	1-249-429-11	CARBON	10K	5%	1/4W
R222	1-249-429-11	CARBON	10K	5%	1/4W
R223	1-249-429-11	CARBON	10K	5%	1/4W
R224	1-249-429-11	CARBON	10K	5%	1/4W
R225	1-249-429-11	CARBON	10K	5%	1/4W
R226	1-249-429-11	CARBON	10K	5%	1/4W
R227	1-249-429-11	CARBON	10K	5%	1/4W
R228	1-249-429-11	CARBON	10K	5%	1/4W
R229	1-249-429-11	CARBON	10K	5%	1/4W
R230	1-249-429-11	CARBON	10K	5%	1/4W
R231	1-249-429-11	CARBON	10K	5%	1/4W
R232	1-249-429-11	CARBON	10K	5%	1/4W
R233	1-249-393-11	CARBON	10	5%	1/4W
R234	1-249-401-11	CARBON	47	5%	1/4W
R235	1-249-425-11	CARBON	4.7K	5%	1/4W
R236	1-249-429-11	CARBON	10K	5%	1/4W
R237	1-249-425-11	CARBON	4.7K	5%	1/4W
R238	1-249-425-11	CARBON	4.7K	5%	1/4W
R240	1-249-417-11	CARBON	1K	5%	1/4W
R241	1-249-437-11	CARBON	47K	5%	1/4W
R242	1-249-437-11	CARBON	47K	5%	1/4W
R243	1-249-429-11	CARBON	10K	5%	1/4W
R244	1-249-437-11	CARBON	47K	5%	1/4W
R245	1-249-437-11	CARBON	47K	5%	1/4W
R246	1-249-437-11	CARBON	47K	5%	1/4W
R247	1-249-437-11	CARBON	47K	5%	1/4W
R248	1-249-437-11	CARBON	47K	5%	1/4W
R501	1-249-411-11	CARBON	330	5%	1/4W
R502	1-249-441-11	CARBON	100K	5%	1/4W
R503	1-249-441-11	CARBON	100K	5%	1/4W
R504	1-249-417-11	CARBON	1K	5%	1/4W
R505	1-247-897-11	CARBON	560K	5%	1/4W
R506	1-249-437-11	CARBON	47K	5%	1/4W
R507	1-249-441-11	CARBON	100K	5%	1/4W
R508	1-249-409-11	CARBON	220	5%	1/4W

MAIN POWER IC

Ref. No.	Part No.	Description			Remark
R509	1-249-433-11	CARBON	22K	5%	1/4W
R510	1-249-417-11	CARBON	1K	5%	1/4W
R511	1-249-417-11	CARBON	1K	5%	1/4W
R512	1-249-417-11	CARBON	1K	5%	1/4W
R513	1-249-417-11	CARBON	1K	5%	1/4W
R514	1-249-421-11	CARBON	2.2K	5%	1/4W
R515	1-249-417-11	CARBON	1K	5%	1/4W
R516	1-249-417-11	CARBON	1K	5%	1/4W
R517	1-249-417-11	CARBON	1K	5%	1/4W
R518	1-249-417-11	CARBON	1K	5%	1/4W
R519	1-249-437-11	CARBON	47K	5%	1/4W
R520	1-249-437-11	CARBON	47K	5%	1/4W
R521	1-249-437-11	CARBON	47K	5%	1/4W
R522	1-249-437-11	CARBON	47K	5%	1/4W
R523	1-249-437-11	CARBON	47K	5%	1/4W
R524	1-249-435-11	CARBON	33K	5%	1/4W
R525	1-249-417-11	CARBON	1K	5%	1/4W
R526	1-249-437-11	CARBON	47K	5%	1/4W
R527	1-249-437-11	CARBON	47K	5%	1/4W
R528	1-249-437-11	CARBON	47K	5%	1/4W
R529	1-249-417-11	CARBON	1K	5%	1/4W (1070X)
R530	1-247-887-00	CARBON	220K	5%	1/4W (1070X)
R531	1-249-405-11	CARBON	100	5%	1/4W
R533	1-249-425-11	CARBON	4.7K	5%	1/4W
R534	1-249-405-11	CARBON	100	5%	1/4W
R535	1-249-421-11	CARBON	2.2K	5%	1/4W
R536	1-249-425-11	CARBON	4.7K	5%	1/4W
R538	1-249-417-11	CARBON	1K	5%	1/4W
R539	1-249-405-11	CARBON	100	5%	1/4W
R540	1-249-429-11	CARBON	10K	5%	1/4W
R542	1-249-433-11	CARBON	22K	5%	1/4W
R543	1-249-415-11	CARBON	680	5%	1/4W
R544	1-247-903-00	CARBON	1M	5%	1/4W
R545	1-249-429-11	CARBON	10K	5%	1/4W
R546	1-249-405-11	CARBON	100	5%	1/4W
R547	1-249-405-11	CARBON	100	5%	1/4W
R549	1-249-417-11	CARBON	1K	5%	1/4W
R551	1-249-411-11	CARBON	330	5%	1/4W
R552	1-249-441-11	CARBON	100K	5%	1/4W
R553	1-249-441-11	CARBON	100K	5%	1/4W
R554	1-249-417-11	CARBON	1K	5%	1/4W
R555	1-247-897-11	CARBON	560K	5%	1/4W
R556	1-249-437-11	CARBON	47K	5%	1/4W
R557	1-249-441-11	CARBON	100K	5%	1/4W
R558	1-249-409-11	CARBON	220	5%	1/4W
R559	1-249-433-11	CARBON	22K	5%	1/4W
R560	1-249-417-11	CARBON	1K	5%	1/4W
R561	1-249-417-11	CARBON	1K	5%	1/4W
R562	1-249-417-11	CARBON	1K	5%	1/4W
R563	1-249-417-11	CARBON	1K	5%	1/4W
R564	1-249-421-11	CARBON	2.2K	5%	1/4W
R565	1-249-417-11	CARBON	1K	5%	1/4W
R566	1-249-417-11	CARBON	1K	5%	1/4W
R567	1-249-417-11	CARBON	1K	5%	1/4W
R568	1-249-417-11	CARBON	1K	5%	1/4W
R569	1-249-437-11	CARBON	47K	5%	1/4W
R570	1-249-437-11	CARBON	47K	5%	1/4W
R571	1-249-437-11	CARBON	47K	5%	1/4W
R572	1-249-437-11	CARBON	47K	5%	1/4W
R573	1-249-437-11	CARBON	47K	5%	1/4W
R574	1-249-435-11	CARBON	33K	5%	1/4W
R575	1-249-417-11	CARBON	1K	5%	1/4W
R576	1-249-437-11	CARBON	47K	5%	1/4W
R577	1-249-437-11	CARBON	47K	5%	1/4W
R578	1-249-437-11	CARBON	47K	5%	1/4W
R579	1-249-417-11	CARBON	1K	5%	1/4W (1070X)
R580	1-247-887-00	CARBON	220K	5%	1/4W (1070X)
R581	1-249-405-11	CARBON	100	5%	1/4W
R584	1-249-405-11	CARBON	100	5%	1/4W
R586	1-249-425-11	CARBON	4.7K	5%	1/4W
R588	1-249-417-11	CARBON	1K	5%	1/4W
R589	1-249-405-11	CARBON	100	5%	1/4W
R592	1-249-433-11	CARBON	22K	5%	1/4W
R596	1-249-405-11	CARBON	100	5%	1/4W
R597	1-249-405-11	CARBON	100	5%	1/4W
R701	1-249-417-11	CARBON	1K	5%	1/4W
R702	1-249-438-11	CARBON	56K	5%	1/4W
R703	1-249-413-11	CARBON	470	5%	1/4W
R704	1-249-401-11	CARBON	47	5%	1/4W
R705	1-249-410-11	CARBON	270	5%	1/4W
R706	1-249-438-11	CARBON	56K	5%	1/4W
R707	1-249-417-11	CARBON	1K	5%	1/4W
R708	1-249-412-11	CARBON	390	5%	1/4W
R709	1-249-393-11	CARBON	10	5%	1/4W
R710	1-249-393-11	CARBON	10	5%	1/4W
R711	1-247-704-11	CARBON	220	5%	1/4W
R713	1-247-688-11	CARBON	10	5%	1/4W
R714	1-247-688-11	CARBON	10	5%	1/4W
R715	1-214-789-00	RES, METAL PLATE 0.1			
R716	1-214-789-00	RES, METAL PLATE 0.1			
R717	1-249-422-11	CARBON	2.7K	5%	1/4W
R718	1-249-431-11	CARBON	15K	5%	1/4W
R719	1-249-422-11	CARBON	2.7K	5%	1/4W
R720	1-249-431-11	CARBON	15K	5%	1/4W

MAIN POWER IC POWER REAR VIDEO SP OUT SURR SP VOLUME RELAY BALANCE VR HP MUT

Ref. No.	Part No.	Description				Remark
R721	1-260-072-11	CARBON	4.7	5%	1/2W	
R722	1-260-076-11	CARBON	10	5%	1/2W	
R725	1-249-417-11	CARBON	1K	5%	1/4W	
R726	1-249-429-11	CARBON	10K	5%	1/4W	
R727	1-249-437-11	CARBON	47K	5%	1/4W	
R728	1-249-436-11	CARBON	39K	5%	1/4W	
R729	1-249-434-11	CARBON	27K	5%	1/4W	
R730	1-249-433-11	CARBON	22K	5%	1/4W	
R731	1-249-437-11	CARBON	47K	5%	1/4W	
R751	1-249-417-11	CARBON	1K	5%	1/4W	
R752	1-249-438-11	CARBON	56K	5%	1/4W	
R753	1-249-413-11	CARBON	470	5%	1/4W	
R754	1-249-401-11	CARBON	47	5%	1/4W	
R755	1-249-410-11	CARBON	270	5%	1/4W	
R756	1-249-438-11	CARBON	56K	5%	1/4W	
R757	1-249-417-11	CARBON	1K	5%	1/4W	
R758	1-249-412-11	CARBON	390	5%	1/4W	
R759	1-249-393-11	CARBON	10	5%	1/4W	
R760	1-249-393-11	CARBON	10	5%	1/4W	
R761	1-247-704-11	CARBON	220	5%	1/4W	
R763	1-247-688-11	CARBON	10	5%	1/4W	
R764	1-247-688-11	CARBON	10	5%	1/4W	
R765	1-214-789-00	RES, METAL PLATE 0.1				
R766	1-214-789-00	RES, METAL PLATE 0.1				
R767	1-249-422-11	CARBON	2.7K	5%	1/4W	
R768	1-249-431-11	CARBON	15K	5%	1/4W	
R769	1-249-422-11	CARBON	2.7K	5%	1/4W	
R770	1-249-431-11	CARBON	15K	5%	1/4W	
R771	1-260-072-11	CARBON	4.7	5%	1/2W	
R772	1-260-076-11	CARBON	10	5%	1/2W	
R801	1-247-887-00	CARBON	220K	5%	1/4W	
R802	1-249-429-11	CARBON	10K	5%	1/4W	
R803	1-247-883-00	CARBON	150K	5%	1/4W	
R805	1-249-425-11	CARBON	4.7K	5%	1/4W	
R831	1-249-441-11	CARBON	100K	5%	1/4W	
R832	1-249-441-11	CARBON	100K	5%	1/4W	
R834	1-249-417-11	CARBON	1K	5%	1/4W	
R835	1-247-885-00	CARBON	180K	5%	1/4W	
R836	1-249-429-11	CARBON	10K	5%	1/4W	
R837	1-249-431-11	CARBON	15K	5%	1/4W	
R838	1-249-417-11	CARBON	1K	5%	1/4W	
R839	1-249-419-11	CARBON	1.5K	5%	1/4W	
R840	1-249-441-11	CARBON	100K	5%	1/4W	
R841	1-249-427-11	CARBON	6.8K	5%	1/4W	
R842	1-249-426-11	CARBON	5.6K	5%	1/4W	
R851	1-247-887-00	CARBON	220K	5%	1/4W	
R852	1-249-429-11	CARBON	10K	5%	1/4W	
R853	1-247-883-00	CARBON	150K	5%	1/4W	

Ref. No.	Part No.	Description				Remark
R971	⚠ 1-215-906-11	METAL OXIDE	15	5%	3W	F
R972	⚠ 1-216-472-00	METAL OXIDE	39	5%	3W	F
R973	1-249-385-11	CARBON	2.2	5%	1/6W	
R974	1-249-385-11	CARBON	2.2	5%	1/6W	
R975	1-249-409-11	CARBON	220	5%	1/4W	
R976	1-249-426-11	CARBON	5.6K	5%	1/4W	
		< VARIABLE RESISTOR >				
RT701	1-238-596-11	RES, ADJ, CAREBON 470 (BIAS)				
RT751	1-238-596-11	RES, ADJ, CAREBON 470 (BIAS)				
		< RELAY >				
RY541	1-515-726-11	RELAY				
RY701	1-515-741-11	RELAY				
		< CONNECTOR >				
TP701	* 1-560-060-00	PIN, CONNECTOR 2P				
TP751	* 1-560-060-00	PIN, CONNECTOR 2P				

****

* A-4345-261-A POWER BOARD, COMPLETE (970X, 1070X:US, Canadian)
****
* A-4345-668-A POWER BOARD, COMPLETE (1070X:E2, E3)
****

* A-4345-266-A REAR BOARD, COMPLETE (1070X)
****
* A-4345-277-A REAR BOARD, COMPLETE (970X)
****

* 1-640-067-11 VIDEO BOARD
****
* 1-640-068-11 SP OUT BOARD
****
* 1-640-069-11 SURR SP BOARD
****
* 1-640-070-11 VOLUME BOARD
****
* 1-640-071-11 RELAY BOARD
****
* 1-640-072-11 BALANCE VR BOARD
****
* 1-640-073-11 HP BOARD
****
* 1-640-075-11 MUT BOARD
****

* 1-533-185-11 HOLDER, FUSE (970X, 1070X:US, Canadian)
* 1-533-213-31 HOLDER, FUSE (1070X:E2, E3)
* 3-309-144-21 HEAT SINK
* 4-942-204-01 PLATE, GROUND
7-682-548-04 SCREW +BVTT 3X8 (S)

Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Note:
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

POWER REAR VIDEO SP OUT SURR SP VOLUME RELAY BALANCE VR HP MUT

Ref. No.	Part No.	Description			Remark
		< BASE POST >			
BP901	* 1-535-140-00	BASE POST 22MM (10MM PITCH) 3P (970X, 1070X:US, Canadian)			
BP902	* 1-535-140-00	BASE POST 22MM (10MM PITCH) 3P (1070X:E2, E3)			
BP903	1-535-139-00	BASE POST 22MM (10MM PITCH) 2P			
BP904	* 1-535-140-00	BASE POST 22MM (10MM PITCH) 3P (1070X:E2, E3)			
BP905	* 1-535-140-00	BASE POST 22MM (10MM PITCH) 3P (1070X:E2, E3)			
BP906	* 1-535-140-00	BASE POST 22MM (10MM PITCH) 3P (1070X:E2, E3)			
		< CAPACITOR >			
C251	1-124-927-11	ELECT	4.7uF	20%	100V
C252	1-124-927-11	ELECT	4.7uF	20%	100V
C253	1-124-472-11	ELECT	470uF	20%	10V
C254	1-124-472-11	ELECT	470uF	20%	10V
C255	1-124-472-11	ELECT	470uF	20%	10V
C256	1-124-477-11	ELECT	47uF	20%	25V
C257	1-124-927-11	ELECT	4.7uF	20%	100V (1070X)
C599	1-124-273-00	ELECT	3.3uF	20%	50V
C601	1-124-927-11	ELECT	4.7uF	20%	100V
C602	1-162-282-31	CERAMIC	100PF	10%	50V
C603	1-162-282-31	CERAMIC	100PF	10%	50V
C604	1-162-191-31	CERAMIC	2.2PF	10%	50V
C605	1-124-477-11	ELECT	47uF	20%	25V
C606	1-164-159-11	CERAMIC	0.1uF		50V
C607	1-130-487-00	MYLAR	0.022uF	5%	50V
C608	1-124-927-11	ELECT	4.7uF	20%	100V
C621	1-124-927-11	ELECT	4.7uF	20%	100V (1070X)
C622	1-162-282-31	CERAMIC	100PF	10%	50V (1070X)
C623	1-162-282-31	CERAMIC	100PF	10%	50V (1070X)
C625	1-124-477-11	ELECT	47uF	20%	25V (1070X)
C626	1-164-159-11	CERAMIC	0.1uF		50V (1070X)
C627	1-130-487-00	MYLAR	0.022uF	5%	50V (1070X)
C628	1-124-927-11	ELECT	4.7uF	20%	100V (1070X)
C631	1-124-927-11	ELECT	4.7uF	20%	100V (970X)
C641	1-124-927-11	ELECT	4.7uF	20%	100V (1070X)
C651	1-124-927-11	ELECT	4.7uF	20%	100V
C652	1-162-282-31	CERAMIC	100PF	10%	50V
C653	1-162-282-31	CERAMIC	100PF	10%	50V
C654	1-162-191-31	CERAMIC	2.2PF	10%	50V
C655	1-124-477-11	ELECT	47uF	20%	25V
C656	1-164-159-11	CERAMIC	0.1uF		50V
C657	1-130-487-00	MYLAR	0.022uF	5%	50V
C658	1-124-927-11	ELECT	4.7uF	20%	100V
C901	1-161-744-00	CERAMIC	0.01uf		400V
C951	1-164-097-11	CERAMIC	0.022uF		50V
C952	1-164-097-11	CERAMIC	0.022uF		50V
C953	1-124-557-11	ELECT	1000uF	20%	25V
C954	1-162-282-31	CERAMIC	100PF	10%	50V
C955	1-124-477-11	ELECT	47uF	20%	25V
C956	1-124-477-11	ELECT	47uF	20%	25V
C957	1-124-903-11	ELECT	1uF	20%	50V
C958	1-164-097-11	CERAMIC	0.022uF		50V
C959	1-124-464-11	ELECT	0.22uF	20%	50V
		< CONNECTOR >			
CN210	* 1-568-824-11	SOCKET, CONNECTOR 5P			
CN510	* 1-568-824-11	SOCKET, CONNECTOR 5P			
CN610	* 1-568-824-11	SOCKET, CONNECTOR 5P			
CN611	* 1-568-824-11	SOCKET, CONNECTOR 5P			
CN612	* 1-568-828-11	SOCKET, CONNECTOR 9P			
CNJ12	* 1-564-505-11	PLUG, CONNECTOR 2P			
CNJ14	* 1-564-506-11	PLUG, CONNECTOR 3P			
CNJ16	* 1-564-518-11	PLUG, CONNECTOR 3P			
CNJ17	* 1-564-687-11	PIN, CONNECTOR 3P (1070X:E2, E3)			
CNJ18	* 1-564-687-11	PIN, CONNECTOR 3P (1070X:E2, E3)			
CNJ22	* 1-564-505-11	PLUG, CONNECTOR 2P (1070X)			
CNJ28	* 1-564-506-11	PLUG, CONNECTOR 3P			
CNJ42	* 1-564-505-11	PLUG, CONNECTOR 2P			
CNJ51	* 1-564-507-11	PLUG, CONNECTOR 4P			
CNJ53	* 1-564-508-11	PLUG, CONNECTOR 5P			
CNJ55	* 1-564-337-00	PIN, CONNECTOR 3P			
CNJ102	* 1-565-295-11	PLUG, CONNECTOR 4P			
CNJ251	1-565-319-11	JACK, PIN 2P (MONITOR)			
CNJ252	1-565-351-21	JACK, PIN 3P (VIDEO 2/LD, VIDEO 1)			
CNJ601	1-565-352-11	JACK, PIN 2P (CENTER OUT)			
CNJ701	1-507-796-71	JACK (HEADPHONES)			
CNJ901	1-540-060-11	OUTLET, AC (POLAR)			
CNJ902	* 1-564-338-00	PIN, CONNECTOR 4P			
CNJ903	* 1-564-321-00	PIN, CONNECTOR 2P			
		< DIODE >			
D141	8-719-313-72	DIODE SEL3810A-CD			
D601	8-719-912-20	DIODE 1SS120			
D621	8-719-912-20	DIODE 1SS120 (1070X)			

POWER **REAR** **VIDEO** **SP OUT** **SURR SP** **VOLUME** **RELAY**
BALANCE VR **HP** **MUT**

Ref. No.	Part No.	Description	Remark
D641	8-719-912-20	DIODE 1SS120	
D642	8-719-912-20	DIODE 1SS120	
D643	8-719-912-20	DIODE 1SS120	
D644	8-719-912-20	DIODE 1SS120	
D645	8-719-912-20	DIODE 1SS120	
D646	8-719-912-20	DIODE 1SS120	
D651	8-719-912-20	DIODE 1SS120	
D951	8-719-200-82	DIODE 11ES2	
D952	8-719-200-82	DIODE 11ES2	
D953	8-719-200-82	DIODE 11ES2	
D954	8-719-200-82	DIODE 11ES2	
D955	8-719-912-20	DIODE 1SS120	
D956	8-719-912-20	DIODE 1SS120	
D957	8-719-933-41	DIODE HZS6C3L	
D958	8-719-912-20	DIODE 1SS120	
D959	8-719-933-41	DIODE HZS6C3L	
D960	8-719-914-11	DIODE HZ4ALL	
		< IC >	
IC251	8-759-991-77	IC BA7625	
IC601	8-759-502-32	IC SI-18752N	
IC621	8-759-323-30	IC LM3875-2 (1070X)	
IC651	8-759-502-32	IC SI-18752N	
		< COIL >	
L251	1-410-509-11	INDUCTOR 10uH	
L601	* 1-420-872-00	COIL, AIR CORE	
L621	* 1-420-872-00	COIL, AIR CORE (1070X)	
L651	* 1-420-872-00	COIL, AIR CORE	
		< TRANSISTOR >	
Q251	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q252	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q253	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q601	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q621	8-729-140-82	TRANSISTOR 2SA988-PAFAEA (1070X)	
Q641	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q642	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q643	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q651	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q951	8-729-209-15	TRANSISTOR 2SD2012	
Q952	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q953	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q954	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q955	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q956	8-729-620-05	TRANSISTOR 2SC2603-EF	
		< RESISTOR >	
R145	1-249-413-11	CARBON 470 5% 1/4W	

Ref. No.	Part No.	Description			Remark
R251	1-247-804-11	CARBON	75	5%	1/4W
R252	1-247-804-11	CARBON	75	5%	1/4W
R253	1-249-403-11	CARBON	68	5%	1/4W
R254	1-249-429-11	CARBON	10K	5%	1/4W
R255	1-249-403-11	CARBON	68	5%	1/4W
R256	1-249-429-11	CARBON	10K	5%	1/4W
R257	1-249-403-11	CARBON	68	5%	1/4W
R258	1-249-429-11	CARBON	10K	5%	1/4W
R259	1-249-405-11	CARBON	100	5%	1/4W
R260	1-249-405-11	CARBON	100	5%	1/4W
R261	1-249-405-11	CARBON	100	5%	1/4W
R262	1-249-405-11	CARBON	100	5%	1/4W
R263	1-249-405-11	CARBON	100	5%	1/4W
R264	1-249-405-11	CARBON	100	5%	1/4W
R265	1-247-804-11	CARBON	75	5%	1/4W (1070X)
R269	⚠ 1-249-393-11	CARBON	10	5%	1/4W F (1070X)
R599	1-249-413-11	CARBON	470	5%	1/4W
R601	1-249-417-11	CARBON	1K	5%	1/4W
R602	1-249-439-11	CARBON	68K	5%	1/4W
R603	1-249-419-11	CARBON	1.5K	5%	1/4W
R604	1-249-439-11	CARBON	68K	5%	1/4W
R605	1-249-417-11	CARBON	1K	5%	1/4W
R606	1-249-431-11	CARBON	15K	5%	1/4W
R607	1-217-151-00	RES, METAL PLATE 0.22			
R608	1-249-389-11	CARBON	4.7	5%	1/4W
R609	1-249-393-11	CARBON	10	5%	1/4W
R610	1-249-434-11	CARBON	27K	5%	1/4W
R621	1-249-417-11	CARBON	1K	5%	1/4W (1070X)
R622	1-249-439-11	CARBON	68K	5%	1/4W (1070X)
R623	1-249-419-11	CARBON	1.5K	5%	1/4W (1070X)
R624	1-249-439-11	CARBON	68K	5%	1/4W (1070X)
R625	1-249-417-11	CARBON	1K	5%	1/4W (1070X)
R626	1-249-431-11	CARBON	15K	5%	1/4W (1070X)
R627	1-217-151-00	RES, METAL PLATE 0.22	(1070X)		
R628	1-249-389-11	CARBON	4.7	5%	1/4W (1070X)
R629	⚠ 1-249-393-11	CARBON	10	5%	1/4W F (1070X)
R630	1-249-431-11	CARBON	15K	5%	1/4W (1070X)
R631	1-249-441-11	CARBON	100K	5%	1/4W (970X)
R641	1-249-421-11	CARBON	2.2K	5%	1/4W (1070X)
R642	1-249-421-11	CARBON	2.2K	5%	1/4W (1070X)
R643	1-249-421-11	CARBON	2.2K	5%	1/4W (1070X)
R644	1-249-425-11	CARBON	4.7K	5%	1/4W (1070X)
R645	1-249-413-11	CARBON	470	5%	1/4W (1070X)
R651	1-249-417-11	CARBON	1K	5%	1/4W
R652	1-249-439-11	CARBON	68K	5%	1/4W
R653	1-249-419-11	CARBON	1.5K	5%	1/4W

Note:
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Replace only with part number specified.

Note:
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Ne les remplacer que par une pièce portant le numéro spécifié.

POWER REAR VIDEO SP OUT SURR SP VOLUME RELAY BALANCE VR HP MUT SURROUND DISPLAY

Ref. No.	Part No.	Description				Remark
R654	1-249-439-11	CARBON	68K	5%	1/4W	
R655	1-249-417-11	CARBON	1K	5%	1/4W	
R656	1-249-431-11	CARBON	15K	5%	1/4W	
R657	1-217-151-00	RES, METAL PLATE 0.22				
R658	1-249-389-11	CARBON	4.7	5%	1/4W	
R659	1-249-393-11	CARBON	10	5%	1/4W	
R660	1-249-433-11	CARBON	22K	5%	1/4W	
R723	⚠ 1-216-431-11	METAL OXIDE	560	5%	1W	F
R773	⚠ 1-216-431-11	METAL OXIDE	560	5%	1W	F
R901	1-202-725-00	SOLID	3.3M	10%	1/2W	(970X, 1070X:US, Canadian)
R951	1-249-396-11	CARBON	18	5%	1/6W	
R952	1-249-417-11	CARBON	1K	5%	1/4W	
R953	1-249-437-11	CARBON	47K	5%	1/4W	
R954	1-249-425-11	CARBON	4.7K	5%	1/4W	
R955	1-249-433-11	CARBON	22K	5%	1/4W	
R956	1-249-429-11	CARBON	10K	5%	1/4W	
R957	1-249-417-11	CARBON	1K	5%	1/4W	
R958	1-249-429-11	CARBON	10K	5%	1/4W	
R959	1-249-429-11	CARBON	10K	5%	1/4W	
R960	1-249-426-11	CARBON	5.6K	5%	1/4W	
R961	1-249-417-11	CARBON	1K	5%	1/4W	
R962	1-249-426-11	CARBON	5.6K	5%	1/4W	
		< VARIABLE RESISTOR >				
RV501	1-241-563-11	RES, VAR, CARBON 100KX4				(VOLUME)
		< RELAY >				
RY642	1-515-790-11	RELAY				
RY643	1-515-790-11	RELAY				
RY901	1-515-701-11	RELAY				(970X, 1070X:US, Canadian)
RY901	1-515-617-11	RELAY				(1070X:E2, E3)
		< SWITCH >				
S151	1-572-184-11	SWITCH, KEYBOARD				(MUTING)
S152	1-572-184-11	SWITCH, KEYBOARD				(DBFB)
S701	1-572-322-11	SWITCH, SLIDE				(SPEAKERS)
		< TRANSFORMER >				
T901	⚠ 1-448-517-21	TRANSFORMER, POWER				(970X, 1070X:US, Canadian)
T901	⚠ 1-448-523-21	TRANSFORMER, POWER				(1070X:E2, E3)
		< TERMINAL >				
TM601	1-536-706-00	TERMINAL BOARD				(SP)
TM602	1-537-240-11	TERMINAL BOARD				(CHECKER PIN) (1070X)
TM701	1-536-706-00	TERMINAL BOARD				(SP)

Ref. No.	Part No.	Description	Remark
		< SWITCH >	
VS901	1-571-437-11	SWITCH, POWER VOLTAGE CHANGE	(1070X:E2, E3)
		< VARISTOR >	
VZ901	1-807-293-11	VARISTOR (SNR-14A 140K)	
VZ902	1-807-180-11	VARISTOR (SNR-14A 300K)	(1070X:E2, E3)

****

* A-4345-258-A SURROUND BOARD, COMPLETE
****

* A-4345-259-A DISPLAY BOARD, COMPLETE (1070X)
****
* A-4345-270-A DISPLAY BOARD, COMPLETE (970X)
****

* 4-924-988-11 PLATE (ST), GROUND
* 4-945-957-01 HOLDER, FL TUBE
* 4-945-958-01 COVER, LAMP
* 4-946-014-01 CUSHION

< CAPACITOR >

C1	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C2	1-124-477-11	ELECT	47uF	20%	25V
C3	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C4	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C5	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C6	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C9	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C21	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C22	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C23	1-124-477-11	ELECT	47uF	20%	25V
C24	1-123-382-00	ELECT	3.3uF	20%	100V
C25	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C26	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V
C27	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C28	1-124-903-11	ELECT	1uF	20%	50V
C30	1-124-903-11	ELECT	1uF	20%	50V
C31	1-124-463-00	ELECT	0.1uF	20%	50V
C32	1-124-902-00	ELECT	0.47uF	20%	50V
C33	1-163-020-00	CERAMIC CHIP	0.0082uF	10%	50V
C34	1-123-382-00	ELECT	3.3uF	20%	100V
C35	1-163-020-00	CERAMIC CHIP	0.0082uF	10%	50V
C36	1-123-382-00	ELECT	3.3uF	20%	100V
C37	1-124-907-11	ELECT	10uF	20%	50V
C39	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C40	1-124-463-00	ELECT	0.1uF	20%	50V

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SURROUND DISPLAY

Ref. No.	Part No.	Description			Remark
C41	1-124-906-11	ELECT	4.7uF	20%	50V
C42	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C43	1-126-176-11	ELECT	220uF	20%	10V
C44	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C45	1-123-382-00	ELECT	3.3uF	20%	100V
C46	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C48	1-123-382-00	ELECT	3.3uF	20%	100V
C49	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C51	1-124-477-11	ELECT	47uF	20%	25V
C61	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C63	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C81	1-102-961-00	CERAMIC	27PF	5%	50V
C82	1-102-961-00	CERAMIC	27PF	5%	50V
C83	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C84	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C85	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C86	1-124-477-11	ELECT	47uF	20%	25V
C87	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C89	1-124-925-11	ELECT	2.2uF	20%	100V
C90	1-124-463-00	ELECT	0.1uF	20%	50V
C91	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C92	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C93	1-124-477-11	ELECT	47uF	20%	25V
C101	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C102	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C103	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C104	1-126-154-11	ELECT	47uF	20%	6.3V
C105	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C106	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C107	1-126-096-11	ELECT	10uF	20%	35V
C108	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C109	1-126-096-11	ELECT	10uF	20%	35V
C110	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C111	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C114	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C301	1-124-907-11	ELECT	10uF	20%	50V
C302	1-163-109-00	CERAMIC CHIP	47PF	5%	50V
C303	1-124-907-11	ELECT	10uF	20%	50V
C304	1-124-907-11	ELECT	10uF	20%	50V
C305	1-163-109-00	CERAMIC CHIP	47PF	5%	50V
C306	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C307	1-124-927-11	ELECT	4.7uF	20%	100V
C308	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V
C309	1-163-018-00	CERAMIC CHIP	0.0056uF	5%	50V
C310	1-163-006-11	CERAMIC CHIP	560PF	10%	50V

Ref. No.	Part No.	Description			Remark
C311	1-124-907-11	ELECT	10uF	20%	50V
C312	1-163-007-11	CERAMIC CHIP	680PF	10%	50V
C313	1-164-492-11	CERAMIC CHIP	0.15uF	10%	16V
C314	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
C315	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C316	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C317	1-124-927-11	ELECT	4.7uF	20%	100V
C319	1-124-927-11	ELECT	4.7uF	20%	100V
C320	1-124-903-11	ELECT	1uF	20%	50V
C321	1-124-768-11	ELECT	4.7uF	20%	50V
C322	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V
C323	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C324	1-163-016-00	CERAMIC CHIP	0.0039uF	10%	50V
C325	1-163-833-00	CERAMIC CHIP	0.068uF		25V
C326	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C327	1-163-103-00	CERAMIC CHIP	27PF	5%	50V
C328	1-163-103-00	CERAMIC CHIP	27PF	5%	50V
C329	1-124-472-11	ELECT	470uF	20%	10V
C330	1-124-927-11	ELECT	4.7uF	20%	100V
C331	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C332	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C333	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
C334	1-126-176-11	ELECT	220uF	20%	10V
C335	1-126-176-11	ELECT	220uF	20%	10V
C336	1-126-176-11	ELECT	220uF	20%	10V
C337	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C338	1-124-477-11	ELECT	47uF	20%	25V
C339	1-124-907-11	ELECT	10uF	20%	50V
C340	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C341	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C342	1-163-007-11	CERAMIC CHIP	680PF	10%	50V
C343	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C344	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C345	1-163-007-11	CERAMIC CHIP	680PF	10%	50V
C346	1-124-927-11	ELECT	4.7uF	20%	100V
C347	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C348	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C349	1-136-171-00	FILM	0.33uF	5%	50V
C350	1-136-171-00	FILM	0.33uF	5%	50V
C351	1-124-907-11	ELECT	10uF	20%	50V
C352	1-163-109-00	CERAMIC CHIP	47PF	5%	50V
C353	1-124-907-11	ELECT	10uF	20%	50V
C354	1-124-907-11	ELECT	10uF	20%	50V
C355	1-163-109-00	CERAMIC CHIP	47PF	5%	50V
C356	1-163-117-00	CERAMIC CHIP	100PF	5%	50V

SURROUND DISPLAY

Ref. No.	Part No.	Description			Remark
C357	1-124-927-11	ELECT	4.7uF	20%	100V
C358	1-136-171-00	FILM	0.33uF	5%	50V
C359	1-136-171-00	FILM	0.33uF	5%	50V
C360	1-130-487-00	MYLAR	0.022uF	5%	50V
C361	1-130-487-00	MYLAR	0.022uF	5%	50V
C362	1-130-487-00	MYLAR	0.022uF	5%	50V
C363	1-130-487-00	MYLAR	0.022uF	5%	50V
C364	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C365	1-124-477-11	ELECT	47uF	20%	25V
C366	1-124-477-11	ELECT	47uF	20%	25V
C367	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C368	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C369	1-124-927-11	ELECT	4.7uF	20%	100V
C370	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C371	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C372	1-124-907-11	ELECT	10uF	20%	50V
C373	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C374	1-124-907-11	ELECT	10uF	20%	50V
C375	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C376	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C377	1-124-907-11	ELECT	10uF	20%	50V
C378	1-124-907-11	ELECT	10uF	20%	50V
C379	1-163-109-00	CERAMIC CHIP	47PF	5%	50V
C386	1-124-907-11	ELECT	10uF	20%	50V
C387	1-124-907-11	ELECT	10uF	20%	50V
C388	1-124-907-11	ELECT	10uF	20%	50V
C389	1-124-907-11	ELECT	10uF	20%	50V
C390	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C395	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V
C396	1-124-907-11	ELECT	10uF	20%	50V
C402	1-124-927-11	ELECT	4.7uF	20%	100V
C403	1-163-109-00	CERAMIC CHIP	47PF	5%	50V
C404	1-124-927-11	ELECT	4.7uF	20%	100V
C405	1-124-927-11	ELECT	4.7uF	20%	100V
C406	1-124-254-00	ELECT	0.68uF	20%	50V
C407	1-164-492-11	CERAMIC CHIP	0.15uF	10%	16V
C408	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C409	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C410	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C411	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C412	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V
C413	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C414	1-163-023-00	CERAMIC CHIP	0.015uF	5%	50V
C415	1-164-182-11	CERAMIC CHIP	0.0033uF	10%	50V
C416	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V

Ref. No.	Part No.	Description			Remark
C417	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C418	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C419	1-163-007-11	CERAMIC CHIP	680PF	10%	50V
C441	1-164-336-11	CERAMIC CHIP	0.33uF		25V
C442	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V
C452	1-124-927-11	ELECT	4.7uF	20%	100V
C453	1-163-109-00	CERAMIC CHIP	47PF	5%	50V
C454	1-124-927-11	ELECT	4.7uF	20%	100V
C455	1-124-927-11	ELECT	4.7uF	20%	100V
C456	1-124-254-00	ELECT	0.68uF	20%	50V
C457	1-164-492-11	CERAMIC CHIP	0.15uF	10%	16V
C458	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C459	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C460	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C461	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C462	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V
C463	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C464	1-163-023-00	CERAMIC CHIP	0.015uF	5%	50V
C465	1-164-182-11	CERAMIC CHIP	0.0033uF	10%	50V
C466	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V
C467	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C468	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C469	1-163-007-11	CERAMIC CHIP	680PF	10%	50V
C472	1-124-907-11	ELECT	10uF	20%	50V
C473	1-124-907-11	ELECT	10uF	20%	50V
C491	1-164-336-11	CERAMIC CHIP	0.33uF		25V
C492	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V
C493	1-124-477-11	ELECT	47uF	20%	25V

< METAL CHIP >

CC301	1-216-295-00	METAL CHIP	0	5%	1/10W

< FILTER >

CF1	1-579-374-71	FILTER, CERAMIC
CF2	1-579-374-71	FILTER, CERAMIC
CF21	1-577-075-11	OSCILLATOR, CERAMIC
CFT21	1-404-853-11	TRANSFORMER, IF (CERAMIC FILTER)

< CONNECTOR >

CNJ103 *	1-565-480-11	CONNECTOR, BOARD TO BOARD 4P
CNP101 *	1-568-864-11	SOCKET, CONNECTOR 21P
CNP301 *	1-573-193-11	CONNECTOR, BOARD TO BOARD 13P
CNP302 *	1-573-193-11	CONNECTOR, BOARD TO BOARD 13P
CNP303 *	1-573-193-11	CONNECTOR, BOARD TO BOARD 13P

SURROUND DISPLAY

Ref.No.	Part No.	Description	Remark
		< DIODE >	
D101	8-719-014-25	DIODE UZP-3.6B	
D102	8-719-988-62	DIODE 1SS355	
D105	8-719-301-52	DIODE SEL2810A-C (DRLC/POWER)	
D106	8-719-301-52	DIODE SEL2810A-C (DRLC/POWER)	
D107	8-719-301-49	DIODE SEL2810A (MONITOR)	
D108	8-719-301-52	DIODE SEL2810A-C (NORMAL)	
D109	8-719-301-52	DIODE SEL2810A-C (WIDE)	
D110	8-719-301-52	DIODE SEL2810A-C (PHANTON)	
D111	8-719-301-52	DIODE SEL2810A-C (3CH)	
D112	8-719-301-56	DIODE SEL2813A-D (SUR)	
D113	8-719-301-56	DIODE SEL2813A-D (EQ)	
D114	8-719-301-56	DIODE SEL2813A-D (INDEX)	
D121	8-719-988-62	DIODE 1SS355	
D122	8-719-988-62	DIODE 1SS355	
D123	8-719-988-62	DIODE 1SS355	
D124	8-719-988-62	DIODE 1SS355	
D125	8-719-988-62	DIODE 1SS355	
D126	8-719-988-62	DIODE 1SS355	
D127	8-719-988-62	DIODE 1SS355	
D131	8-719-988-62	DIODE 1SS355	
D132	8-719-988-62	DIODE 1SS355(970X)	
D134	8-719-988-62	DIODE 1SS355	
D135	8-719-988-62	DIODE 1SS355	
		< FRONT END >	
FE1	1-463-862-11	FRONT END, FM	
FE61	1-239-031-11	ENCAPSULATED COMPONENT	
		< FILTER >	
FL101	1-519-647-11	INDICATOR TUBE, FLUORESCENT	
		< IC >	
IC21	8-759-821-45	IC LA1851N	
IC81	8-759-820-91	IC LC7218	
IC101	8-759-990-38	IC MSC1162GS	
IC102	8-749-922-36	IC GP1U50XB	
IC103	8-759-633-84	IC M66311P	
IC104	8-759-921-32	IC SN74HC237N	
IC105	8-759-916-48	IC SN74HC151AN	
IC301	8-759-603-13	IC M5218FP	
IC302	8-759-801-01	IC LC4966	
IC303	8-759-823-63	IC LV1001M	
IC304	8-759-821-13	IC LM3364K-15	
IC305	8-759-603-13	IC M5218FP	
IC306	8-759-603-13	IC M5218FP	
IC307	8-759-801-01	IC LC4966	
IC308	8-759-512-93	IC SSM2125	

Ref.No.	Part No.	Description	Remark
IC401	8-759-603-13	IC M5218FP	
IC402	8-759-603-13	IC M5218FP	
IC403	8-759-603-13	IC M5218FP	
IC404	8-759-603-13	IC M5218FP	
IC405	8-759-603-13	IC M5218FP	
IC406	8-759-603-13	IC M5218FP	
IC407	8-759-603-13	IC M5218FP	
IC408	8-759-603-13	IC M5218FP	
IC409	8-759-603-13	IC M5218FP	
IC410	8-759-820-60	IC LC7520	
		< COIL >	
L1	1-408-421-00	INDUCTOR 100uH	
L21	1-410-494-11	INDUCTOR 1MMH	
L301	1-408-421-00	INDUCTOR 100uH	
		< FILTER >	
LPF21	1-235-221-00	FILTER, LOW PASS	
		< TRANSISTOR >	
Q1	8-729-230-99	TRANSISTOR 2SC2669-OY	
Q2	8-729-230-99	TRANSISTOR 2SC2669-OY	
Q21	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q22	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q23	8-729-900-63	TRANSISTOR DTA124ES	
Q24	8-729-900-36	TRANSISTOR DTC124ES	
Q25	8-729-900-36	TRANSISTOR DTC124ES	
Q81	8-729-900-63	TRANSISTOR DTA124ES	
Q82	8-729-900-36	TRANSISTOR DTC124ES	
Q83	8-729-202-67	TRANSISTOR 2SK246-GR3	
Q84	8-729-230-93	TRANSISTOR 2SC3113-AB	
Q101	8-729-900-63	TRANSISTOR DTA124ES	
Q102	8-729-900-63	TRANSISTOR DTA124ES	
Q103	8-729-900-36	TRANSISTOR DTC124ES	
Q104	8-729-900-36	TRANSISTOR DTC124ES	
Q105	8-729-900-63	TRANSISTOR DTA124ES	
Q106	8-729-900-36	TRANSISTOR DTC124ES	
Q107	8-729-900-36	TRANSISTOR DTC124ES	
Q301	8-729-900-36	TRANSISTOR DTC124ES	
Q302	8-729-900-63	TRANSISTOR DTA124ES	
Q303	8-729-900-36	TRANSISTOR DTC124ES	
Q304	8-729-900-36	TRANSISTOR DTC124ES	
Q305	8-729-209-15	TRANSISTOR 2SD2012	
Q306	8-729-900-36	TRANSISTOR DTC124ES	
Q307	8-729-900-63	TRANSISTOR DTA124ES	
Q441	8-729-224-61	TRANSISTOR 2SK246-Y	
Q442	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q491	8-729-224-61	TRANSISTOR 2SK246-Y	
Q492	8-729-620-05	TRANSISTOR 2SC2603-EF	

SURROUND DISPLAY

< RESISTOR >

Ref. No.	Part No.	Description			Remark
R1	1-249-401-11	CARBON	47	5%	1/4W
R3	1-216-037-00	METAL CHIP	330	5%	1/10W
R4	1-216-037-00	METAL CHIP	330	5%	1/10W
R5	1-216-037-00	METAL CHIP	330	5%	1/10W
R6	1-216-079-00	METAL CHIP	18K	5%	1/10W
R7	1-216-037-00	METAL CHIP	330	5%	1/10W
R8	1-216-043-00	METAL CHIP	560	5%	1/10W
R9	1-216-083-00	METAL CHIP	27K	5%	1/10W
R21	1-249-404-00	CARBON	82	5%	1/4W
R22	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R23	1-216-049-00	METAL CHIP	1K	5%	1/10W
R24	1-216-085-00	METAL CHIP	33K	5%	1/10W
R25	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R27	1-216-079-00	METAL CHIP	18K	5%	1/10W
R28	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R29	1-216-073-00	METAL CHIP	10K	5%	1/10W
R31	1-216-041-00	METAL CHIP	470	5%	1/10W
R32	1-216-073-00	METAL CHIP	10K	5%	1/10W
R33	1-216-073-00	METAL CHIP	10K	5%	1/10W
R35	1-216-089-00	METAL CHIP	47K	5%	1/10W
R37	1-216-109-00	METAL CHIP	330K	5%	1/10W
R39	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R40	1-216-055-00	METAL CHIP	1.8K	5%	1/10W
R41	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R42	1-216-109-00	METAL CHIP	330K	5%	1/10W
R44	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R45	1-216-055-00	METAL CHIP	1.8K	5%	1/10W
R46	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R47	1-249-409-11	CARBON	220	5%	1/4W
R61	1-216-097-00	METAL CHIP	100K	5%	1/10W
R62	1-216-089-00	METAL CHIP	47K	5%	1/10W
R63	1-216-009-00	METAL CHIP	22	5%	1/10W
R70	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R71	1-216-043-00	METAL CHIP	560	5%	1/10W
R72	1-216-049-00	METAL CHIP	1K	5%	1/10W
R73	1-216-035-00	METAL CHIP	270	5%	1/10W
R74	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R75	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R76	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R77	1-216-025-00	METAL CHIP	100	5%	1/10W
R78	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R79	1-249-405-11	CARBON	100	5%	1/4W
R81	1-216-049-00	METAL CHIP	1K	5%	1/10W
R82	1-216-049-00	METAL CHIP	1K	5%	1/10W
R83	1-216-049-00	METAL CHIP	1K	5%	1/10W
R84	1-216-049-00	METAL CHIP	1K	5%	1/10W
R85	1-216-073-00	METAL CHIP	10K	5%	1/10W
R86	1-216-049-00	METAL CHIP	1K	5%	1/10W
R87	1-216-073-00	METAL CHIP	10K	5%	1/10W
R88	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R89	1-216-049-00	METAL CHIP	1K	5%	1/10W
R91	1-216-049-00	METAL CHIP	1K	5%	1/10W
R92	1-249-401-11	CARBON	47	5%	1/4W
R101	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R102	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R103	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R104	1-216-075-00	METAL CHIP	12K	5%	1/10W
R105	1-216-081-00	METAL CHIP	22K	5%	1/10W
R106	1-216-081-00	METAL CHIP	22K	5%	1/10W
R107	1-216-025-00	METAL CHIP	100	5%	1/10W
R108	1-216-025-00	METAL CHIP	100	5%	1/10W
R109	1-216-105-00	METAL CHIP	220K	5%	1/10W
R110	1-216-041-00	METAL CHIP	470	5%	1/10W
R111	1-216-041-00	METAL CHIP	470	5%	1/10W
R112	1-216-035-00	METAL CHIP	270	5%	1/10W
R113	1-216-041-00	METAL CHIP	470	5%	1/10W
R114	1-216-041-00	METAL CHIP	470	5%	1/10W
R115	1-216-041-00	METAL CHIP	470	5%	1/10W
R116	1-216-041-00	METAL CHIP	470	5%	1/10W
R117	1-216-035-00	METAL CHIP	270	5%	1/10W
R118	1-216-035-00	METAL CHIP	270	5%	1/10W
R119	1-216-035-00	METAL CHIP	270	5%	1/10W
R121	1-216-037-00	METAL CHIP	330	5%	1/10W
R122	1-216-037-00	METAL CHIP	330	5%	1/10W
R123	1-216-037-00	METAL CHIP	330	5%	1/10W
R124	1-216-037-00	METAL CHIP	330	5%	1/10W
R125	1-216-037-00	METAL CHIP	330	5%	1/10W
R126	1-216-037-00	METAL CHIP	330	5%	1/10W
R127	1-216-037-00	METAL CHIP	330	5%	1/10W
R128	1-216-037-00	METAL CHIP	330	5%	1/10W
R129	1-216-081-00	METAL CHIP	22K	5%	1/10W
R130	1-216-081-00	METAL CHIP	22K	5%	1/10W
R131	1-216-081-00	METAL CHIP	22K	5%	1/10W
R132	1-216-081-00	METAL CHIP	22K	5%	1/10W
R133	1-216-081-00	METAL CHIP	22K	5%	1/10W
R134	1-216-081-00	METAL CHIP	22K	5%	1/10W
R135	1-216-081-00	METAL CHIP	22K	5%	1/10W
R136	1-216-081-00	METAL CHIP	22K	5%	1/10W
R137	1-216-081-00	METAL CHIP	22K	5%	1/10W
R138	1-216-081-00	METAL CHIP	22K	5%	1/10W
R139	1-216-089-00	METAL CHIP	47K	5%	1/10W
R140	1-216-089-00	METAL CHIP	47K	5%	1/10W
R141	1-216-089-00	METAL CHIP	47K	5%	1/10W
R142	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R143	1-216-067-00	METAL CHIP	5.6K	5%	1/10W

SURROUND DISPLAY

Ref. No.	Part No.	Description			Remark
R144	1-216-081-00	METAL CHIP	22K	5%	1/10W
R146	1-216-089-00	METAL CHIP	47K	5%	1/10W
R147	1-216-073-00	METAL CHIP	10K	5%	1/10W
R148	1-216-073-00	METAL CHIP	10K	5%	1/10W
R149	1-216-073-00	METAL CHIP	10K	5%	1/10W
R301	1-216-105-00	METAL CHIP	220K	5%	1/10W
R302	1-216-105-00	METAL CHIP	220K	5%	1/10W
R303	1-216-025-00	METAL CHIP	100	5%	1/10W
R304	1-216-113-00	METAL CHIP	470K	5%	1/10W
R305	1-216-073-00	METAL CHIP	10K	5%	1/10W
R306	1-216-073-00	METAL CHIP	10K	5%	1/10W
R308	1-216-089-00	METAL CHIP	47K	5%	1/10W
R309	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R310	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R311	1-216-077-00	METAL CHIP	15K	5%	1/10W
R312	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R313	1-216-748-11	METAL CHIP	39K	5%	1/10W
R314	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R315	1-216-089-00	METAL CHIP	47K	5%	1/10W
R316	1-216-121-00	METAL CHIP	1M	5%	1/10W
R317	1-216-073-00	METAL CHIP	10K	5%	1/10W
R318	1-216-105-00	METAL CHIP	220K	5%	1/10W
R319	1-216-073-00	METAL CHIP	10K	5%	1/10W
R320	1-216-073-00	METAL CHIP	10K	5%	1/10W
R321	1-216-073-00	METAL CHIP	10K	5%	1/10W
R322	1-216-089-00	METAL CHIP	47K	5%	1/10W
R323	1-216-077-00	METAL CHIP	15K	5%	1/10W
R324	1-216-089-00	METAL CHIP	47K	5%	1/10W
R325	1-216-077-00	METAL CHIP	15K	5%	1/10W
R326	1-216-070-00	METAL CHIP	7.5K	5%	1/10W
R327	1-216-070-00	METAL CHIP	7.5K	5%	1/10W
R328	1-216-294-00	METAL CHIP	10M	5%	1/8W
R329	1-216-081-00	METAL CHIP	22K	5%	1/10W
R330	1-216-081-00	METAL CHIP	22K	5%	1/10W
R331	1-216-081-00	METAL CHIP	22K	5%	1/10W
R332	1-216-105-00	METAL CHIP	220K	5%	1/10W
R333	1-216-097-00	METAL CHIP	100K	5%	1/10W
R335	1-216-097-00	METAL CHIP	100K	5%	1/10W
R336	1-216-105-00	METAL CHIP	220K	5%	1/10W
R337	1-216-105-00	METAL CHIP	220K	5%	1/10W
R339	1-216-089-00	METAL CHIP	47K	5%	1/10W
R340	1-216-041-00	METAL CHIP	470	5%	1/10W
R341	1-216-073-00	METAL CHIP	10K	5%	1/10W
R342	1-216-109-00	METAL CHIP	330K	5%	1/10W
R343	1-216-109-00	METAL CHIP	330K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R344	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R345	1-216-075-00	METAL CHIP	12K	5%	1/10W
R346	1-216-097-00	METAL CHIP	100K	5%	1/10W
R347	1-216-105-00	METAL CHIP	220K	5%	1/10W
R348	1-216-073-00	METAL CHIP	10K	5%	1/10W
R349	1-216-097-00	METAL CHIP	100K	5%	1/10W
R351	1-216-105-00	METAL CHIP	220K	5%	1/10W
R352	1-216-105-00	METAL CHIP	220K	5%	1/10W
R353	1-216-025-00	METAL CHIP	100	5%	1/10W
R354	1-216-113-00	METAL CHIP	470K	5%	1/10W
R355	1-216-073-00	METAL CHIP	10K	5%	1/10W
R356	1-216-073-00	METAL CHIP	10K	5%	1/10W
R361	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R362	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R386	1-216-105-00	METAL CHIP	220K	5%	1/10W
R387	1-216-105-00	METAL CHIP	220K	5%	1/10W
R398	1-216-073-00	METAL CHIP	10K	5%	1/10W
R401	1-216-097-00	METAL CHIP	100K	5%	1/10W
R403	1-216-113-00	METAL CHIP	470K	5%	1/10W
R404	1-216-073-00	METAL CHIP	10K	5%	1/10W
R405	1-216-073-00	METAL CHIP	10K	5%	1/10W
R406	1-216-113-00	METAL CHIP	470K	5%	1/10W
R407	1-216-121-00	METAL CHIP	1M	5%	1/10W
R408	1-216-099-00	METAL CHIP	120K	5%	1/10W
R409	1-216-043-00	METAL CHIP	560	5%	1/10W
R410	1-216-121-00	METAL CHIP	1M	5%	1/10W
R411	1-216-099-00	METAL CHIP	120K	5%	1/10W
R412	1-216-045-00	METAL CHIP	680	5%	1/10W
R413	1-216-121-00	METAL CHIP	1M	5%	1/10W
R414	1-216-099-00	METAL CHIP	120K	5%	1/10W
R415	1-216-043-00	METAL CHIP	560	5%	1/10W
R416	1-216-121-00	METAL CHIP	1M	5%	1/10W
R417	1-216-099-00	METAL CHIP	120K	5%	1/10W
R418	1-216-045-00	METAL CHIP	680	5%	1/10W
R419	1-216-121-00	METAL CHIP	1M	5%	1/10W
R420	1-216-099-00	METAL CHIP	120K	5%	1/10W
R421	1-216-045-00	METAL CHIP	680	5%	1/10W
R422	1-216-121-00	METAL CHIP	1M	5%	1/10W
R423	1-216-099-00	METAL CHIP	120K	5%	1/10W
R424	1-216-045-00	METAL CHIP	680	5%	1/10W
R425	1-216-121-00	METAL CHIP	1M	5%	1/10W
R426	1-216-099-00	METAL CHIP	120K	5%	1/10W
R427	1-216-045-00	METAL CHIP	680	5%	1/10W
R428	1-216-097-00	METAL CHIP	100K	5%	1/10W
R431	1-216-069-00	METAL CHIP	6.8K	5%	1/10W

SURROUND DISPLAY

Ref. No.	Part No.	Description			Remark
R432	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R441	1-216-097-00	METAL CHIP	100K	5%	1/10W
R442	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R443	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R444	1-216-101-00	METAL CHIP	150K	5%	1/10W
R445	1-216-039-00	METAL CHIP	390	5%	1/10W
R451	1-216-097-00	METAL CHIP	100K	5%	1/10W
R453	1-216-113-00	METAL CHIP	470K	5%	1/10W
R454	1-216-073-00	METAL CHIP	10K	5%	1/10W
R455	1-216-073-00	METAL CHIP	10K	5%	1/10W
R456	1-216-113-00	METAL CHIP	470K	5%	1/10W
R457	1-216-121-00	METAL CHIP	1M	5%	1/10W
R458	1-216-099-00	METAL CHIP	120K	5%	1/10W
R459	1-216-043-00	METAL CHIP	560	5%	1/10W
R460	1-216-121-00	METAL CHIP	1M	5%	1/10W
R461	1-216-099-00	METAL CHIP	120K	5%	1/10W
R462	1-216-045-00	METAL CHIP	680	5%	1/10W
R463	1-216-121-00	METAL CHIP	1M	5%	1/10W
R464	1-216-099-00	METAL CHIP	120K	5%	1/10W
R465	1-216-043-00	METAL CHIP	560	5%	1/10W
R466	1-216-121-00	METAL CHIP	1M	5%	1/10W
R467	1-216-099-00	METAL CHIP	120K	5%	1/10W
R468	1-216-045-00	METAL CHIP	680	5%	1/10W
R469	1-216-121-00	METAL CHIP	1M	5%	1/10W
R470	1-216-099-00	METAL CHIP	120K	5%	1/10W
R471	1-216-045-00	METAL CHIP	680	5%	1/10W
R472	1-216-121-00	METAL CHIP	1M	5%	1/10W
R473	1-216-099-00	METAL CHIP	120K	5%	1/10W
R474	1-216-045-00	METAL CHIP	680	5%	1/10W
R475	1-216-121-00	METAL CHIP	1M	5%	1/10W
R476	1-216-099-00	METAL CHIP	120K	5%	1/10W
R477	1-216-045-00	METAL CHIP	680	5%	1/10W
R478	1-216-097-00	METAL CHIP	100K	5%	1/10W
R491	1-216-097-00	METAL CHIP	100K	5%	1/10W
R492	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R493	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R494	1-216-101-00	METAL CHIP	150K	5%	1/10W
R495	1-216-017-00	METAL CHIP	47	5%	1/10W

< VARIABLE RESISTOR >

RV21	1-238-598-11	RES, ADJ, CARBON 2.2K (FM SEPARATION)
RV22	1-238-601-11	RES, ADJ, CARBON 22K (AM TUNING LEVEL)
RV24	1-238-601-11	RES, ADJ, CARBON 22K (FM TUNING LEVEL)
RV25	1-238-601-11	RES, ADJ, CARBON 22K (H/L)
RV301	1-241-529-51	RES, ADJ, CARBON 2.2M

< SWITCH >

S101	1-554-303-21	SWITCH, TACTILE (POWER (ON/STANDBY))
S102	1-572-184-11	SWITCH, KEYBOARD (DRLC/POWER (ON/STANDBY))
S103	1-554-303-21	SWITCH, TACTILE (FM/AM)
S104	1-554-303-21	SWITCH, TACTILE (DISPLAY (FREQ/INDEX))
S105	1-554-303-21	SWITCH, TACTILE (TUNING (LEVEL))
S106	1-554-303-21	SWITCH, TACTILE (FM MODE)
S107	1-554-303-21	SWITCH, TACTILE (INDEX SELECT/TUNING+)
S108	1-554-303-21	SWITCH, TACTILE (INDEX SELECT/TUNING-)
S109	1-554-303-21	SWITCH, TACTILE (PRESET TUNING+)
S110	1-554-303-21	SWITCH, TACTILE (PRESET TUNING-)
S111	1-554-303-21	SWITCH, TACTILE (PRESET SF LINK (PGM))
S112	1-554-303-21	SWITCH, TACTILE (SOUND FIELD (RECALL))
S113	1-554-303-21	SWITCH, TACTILE (PRESET SF LINK (ON/OFF))
S114	1-554-303-21	SWITCH, TACTILE (TUNING (DIRECT))
S115	1-554-303-21	SWITCH, TACTILE (△)
S116	1-554-303-21	SWITCH, TACTILE (▽)
S117	1-554-303-21	SWITCH, TACTILE ([3])
S118	1-554-303-21	SWITCH, TACTILE ([6])
S119	1-554-303-21	SWITCH, TACTILE ([9])
S120	1-554-303-21	SWITCH, TACTILE (SHIFT)
S121	1-554-303-21	SWITCH, TACTILE (▷)
S122	1-554-303-21	SWITCH, TACTILE (◁)
S123	1-554-303-21	SWITCH, TACTILE ([2])
S124	1-554-303-21	SWITCH, TACTILE ([5])
S125	1-554-303-21	SWITCH, TACTILE ([8])
S126	1-554-303-21	SWITCH, TACTILE ([0])
S127	1-554-303-21	SWITCH, TACTILE (SOUND FIELD+)
S128	1-554-303-21	SWITCH, TACTILE (SOUND FIELD-)
S129	1-554-303-21	SWITCH, TACTILE (CURSOR MODE)
S130	1-554-303-21	SWITCH, TACTILE ([1])
S131	1-554-303-21	SWITCH, TACTILE ([4])
S132	1-554-303-21	SWITCH, TACTILE ([7])
S133	1-554-303-21	SWITCH, TACTILE (MEMORY)
S134	1-554-303-21	SWITCH, TACTILE (EQUALIZER (ON/OFF))
S135	1-554-303-21	SWITCH, TACTILE (EQUALIZER (FLAT))
S136	1-554-303-21	SWITCH, TACTILE (EQUALIZER (GRAPHIC))
S137	1-554-303-21	SWITCH, TACTILE (PHONO)
S138	1-554-303-21	SWITCH, TACTILE (TUNER)
S139	1-554-303-21	SWITCH, TACTILE (CD)
S140	1-554-303-21	SWITCH, TACTILE (DAT)
S141	1-554-303-21	SWITCH, TACTILE (SURROUND (ON/OFF))
S142	1-554-303-21	SWITCH, TACTILE (SURROUND (MODE))
S143	1-554-303-21	SWITCH, TACTILE (SURROUND (PROLOGIC))
S144	1-554-303-21	SWITCH, TACTILE (VIDEO 1) (1070X)
S145	1-554-303-21	SWITCH, TACTILE (VIDEO 2/LD) (1070X)
S145	1-554-303-21	SWITCH, TACTILE (VIDEO 1) (970X)
S146	1-554-303-21	SWITCH, TACTILE (VIDEO 3) (1070X)
S146	1-554-303-21	SWITCH, TACTILE (VIDEO 2/LD) (970X)

SURROUND DISPLAY

Ref. No.	Part No.	Description	Remark
S147	1-554-303-21	SWITCH, TACTILE (TAPE 1)	
S148	1-554-303-21	SWITCH, TACTILE (TAPE 2)	
S149	1-554-303-21	SWITCH, TACTILE (EDIT(VIDEO)) (1070X)	
S149	1-554-303-21	SWITCH, TACTILE (EDIT(AUDIO)) (970X)	
S150	1-554-303-21	SWITCH, TACTILE (EDIT(AUDIO)) (1070X)	
		< TRANSFORMER >	
T21	⚠ 1-404-954-11	TRANSFORMER, DISCRIMINATOR	
		< TERMINAL >	
TM1	1-537-238-21	TERMINAL BOARD(ANTENNA)	
		< CONNECTOR >	
TP1	* 1-560-060-00	PIN, CONNECTOR 2P	
		< CRYSTAL >	
X301	1-567-132-00	RESONATOR, CERAMIC 8.00MHz	
		< CRYSTAL >	
XT81	1-577-126-11	VIBRATOR, CRYSTAL	

****

MISCELLANEOUS
****

13	1-690-091-11	WIRE, FLAT TYPE (21 CORE)	
58	1-535-706-11	PLUG, JUMPER	
62	⚠ 1-575-975-11	CORD, POWER (1070X:US, Canadian, 970X)	
62	⚠ 1-575-975-11	CORD, POWER (970X, 1070X:US, Canadian)	
62	⚠ 1-590-074-11	CORD, POWER (1070X:E2, E3)	
67	1-575-779-11	WIRE, FLAT TYPE (5 CORE)	
71	1-690-090-11	WIRE, FLAT TYPE (9 CORE)	
F901	⚠ 1-532-350-00	FUSE, TIME-LAG 4.0A (1070X:E2, E3)	
F901	⚠ 1-576-108-11	FUSE 4.0A (970X, 1070X:US, Canadian)	
F902	⚠ 1-532-509-00	FUSE, GLASS TUBE 6.3A (970X:Canadian)	
F902	⚠ 1-532-510-00	FUSE, GLASS TUBE 8A (970X:US, 1070X:US, Canadian)	
F903	⚠ 1-532-350-00	FUSE, TIME-LAG 4.0A(1070X:E2, E3)	
F904	⚠ 1-532-350-00	FUSE, TIME-LAG 4.0A(1070X:E2, E3)	
F905	⚠ 1-532-350-00	FUSE, TIME-LAG 4.0A(1070X:E2, E3)	
F971	⚠ 1-576-108-11	FUSE 4.0A (970X)	
F971	⚠ 1-576-109-11	FUSE 5.0A (1070X)	
F972	⚠ 1-576-108-11	FUSE 4.0A (970X)	
F972	⚠ 1-576-109-11	FUSE 5.0A (1070X)	
FL101	1-519-647-11	INDICATOR TUVE, FLUORESCENT	
S701	1-572-291-11	SWITCH, ROTARY SLIDE(970X)	
S701	1-572-291-21	SWITCH, ROTARY SLIDE (1070X)	
T901	⚠ 1-448-523-11	TRANSFORMER, POWER (1070X:E2, E3)	
T902	⚠ 1-450-580-11	TRANSFORMER, POWER (970X:US)	
T902	⚠ 1-450-581-11	TRANSFORMER, POWER(1070X:US, Canadian)	
T902	⚠ 1-450-581-21	TRANSFORMER, POWER(970X:Canadian)	
T902	⚠ 1-450-632-11	TRANSFORMER, POWER(1070X:E2, E3)	

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ACCESSORY & PACKING MATERIAL
****

	1-465-809-11	COMMANDER, STANDARD (RM-U211) (970X)
	1-465-810-11	COMMANDER, STANDARD (RM-P311) (1070X)
	1-501-374-11	ANTENNA, LOOP
	1-569-007-11	ADAPTER, CONVERSION 2P (1070X:E2, E3)
*	3-704-350-01	SHEET (STANDARD), PROTECTION
	3-707-584-01	COVER, BATTERY (970X)
	3-753-530-21	MANUAL, INSTRUCTION (English)
	3-753-530-31	MANUAL, INSTRUCTION (French)
	4-925-079-01	COVER (6), BATTERY (1070X)
*	4-931-047-01	CUSHION
*	4-946-084-01	INDIVIDUAL CARTON (1070X)
*	4-946-085-01	INDIVIDUAL CARTON (970X)

****

HARDWARE LIST

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#1	7-682-548-04	SCREW +BVTT 3X8 (S)
#2	7-682-550-04	SCREW +BVTT 3X12 (S)
#3	7-682-548-04	SCREW +BVTT 3X8 (S)
#4	7-682-548-09	SCREW +BVTT 3X8 (S)
#5	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S
#6	7-682-550-09	SCREW +B 3X12
#7	7-685-646-79	SCREW +BTP 3X8 TYPE2 N-S
#8	7-682-561-04	SCREW +BVTT 4X8 (S)

Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Note:
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

9-956-485-11

Sony Corporation
Audio Group

English
91F0240-1
Printed in Japan
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Published by Customer Relations and Service Group

STR-AV970X/AV1070X

SONY

SERVICE MANUAL

US Model
Canadian Model
STR-AV970X/AV1070X
E Model
STR-AV1070X

SUPPLEMENT-1

File this Supplement with the Service Manual.

Block Diagram

9-956-485-81

Sony Corporation
Audio Group

English
91H0241-1
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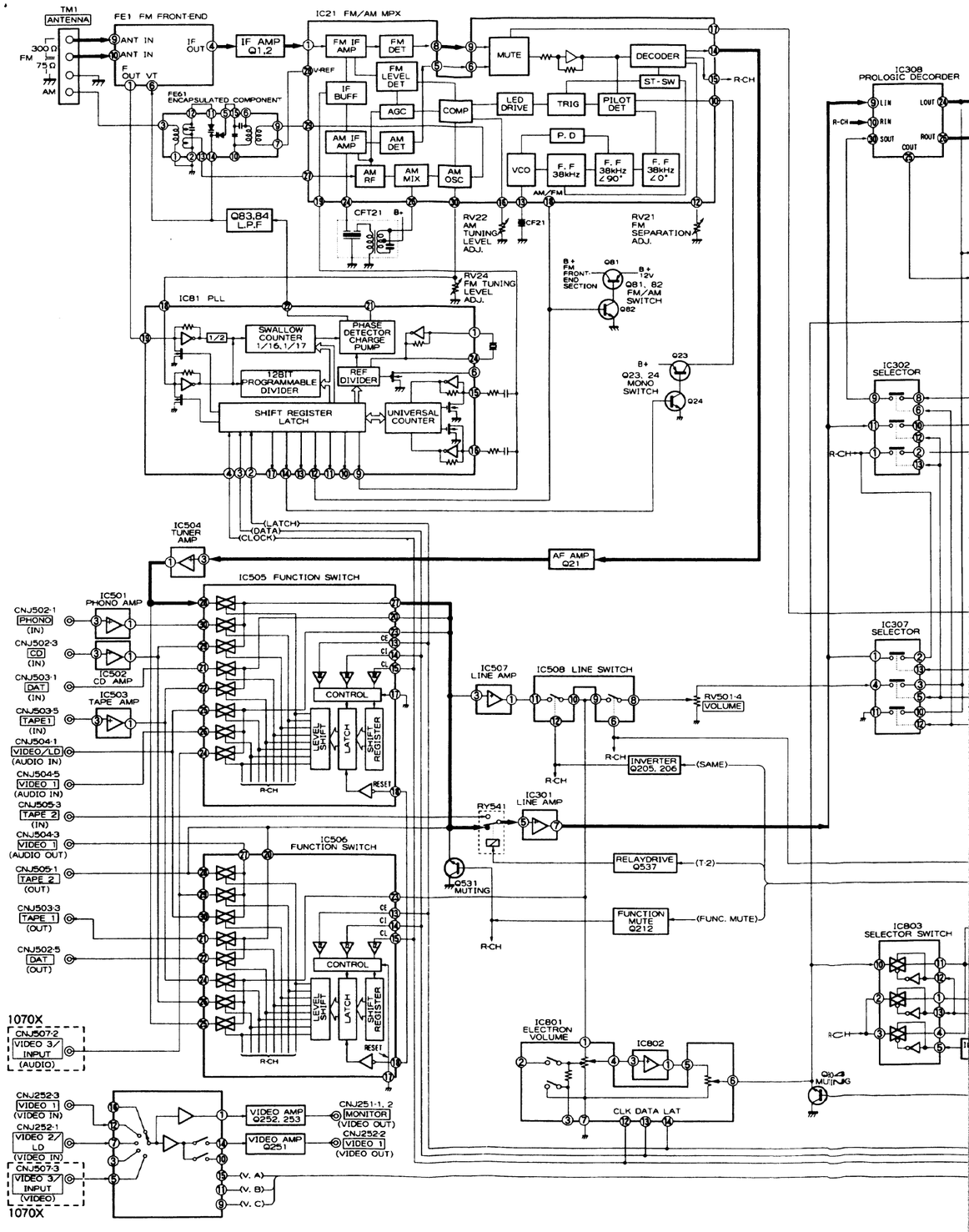
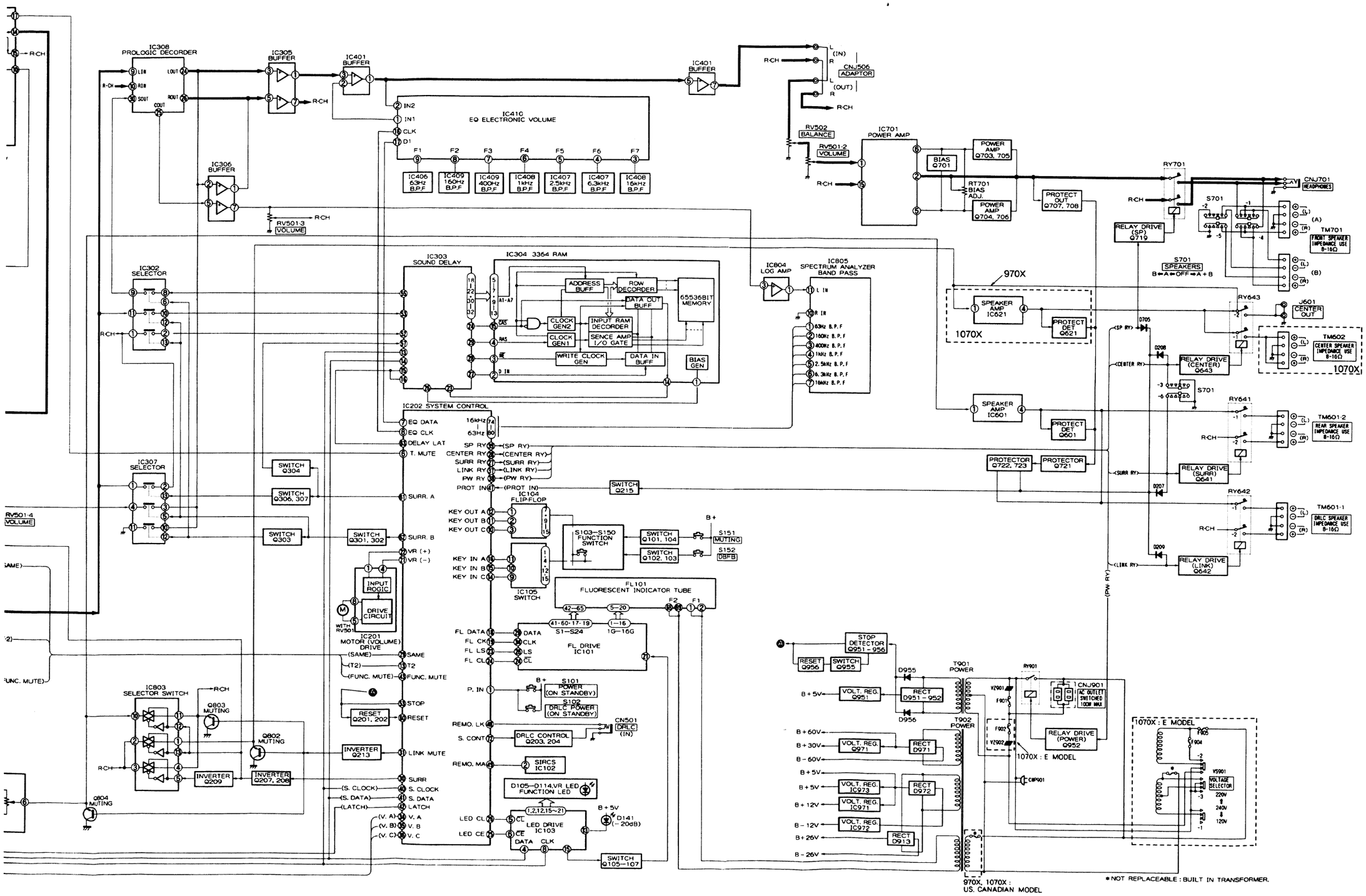
BLOCK DIAGRAM



R-CH : SAME AS L-CH.


IC308 PROLOGIC DECORDER
IC305 BUFFER
IC401 BUFFER
IC401 BUFFER
IC306 BUFFER
IC410 EQ ELECTRONIC VOLUME
F1 F2 F3 F4 F5 F6 F7
IC406 63Hz B.P.F
IC409 160Hz B.P.F
IC409 400Hz B.P.F
IC408 1kHz B.P.F
IC407 2.5kHz B.P.F
IC407 6.3kHz B.P.F
IC408 15kHz B.P.F
RV501-3 VOLUME
R-CH
L (IN) R
CNJ506 ADAPTOR
L (OUT) R
RV502 BALANCE
RV501-2 VOLUME
IC701 POWER AMP
BIAS Q701
POWER AMP Q703, 705
POWER AMP Q704, 706
RT701 BIAS ADJ.
PROTECT OUT Q707, 708
RY701
CNJ701 HEADPHONES
RELAY DRIVE (SP) Q719
S701
TM701 FRONT SPEAKER IMPEDANCE USE 8-16Ω
S701 SPEAKERS B⇐A⇐OFF⇒A+B
IC302 SELECTOR
IC303 SOUND DELAY
IC304 3364 RAM
ADDRESS BUFF
ROW DECORDER
DATA OUT BUFF
65536BIT MEMORY
CLOCK GEN2
INPUT RAM DECORDER
CLOCK GEN1
SENCE AMP I/O GATE
WRITE CLOCK GEN
DATA IN BUFF
BIAS GEN
IC804 LOG AMP
IC805 SPECTRUM ANALYZER BAND PASS
970X
1070X
SPEAKER AMP IC621
PROTECT DET Q621
RY643
J601 CENTER OUT
TM602 CENTER SPEAKER IMPEDANCE USE 8-16Ω
RELAY DRIVE (CENTER) Q643
D705
D208
S701
IC202 SYSTEM CONTROL
EQ DATA
EQ CLK
DELAY LAT
T. MUTE
SP RY
CENTER RY
SURR RY
LINK RY
PW RY
PROT IN
SWITCH Q215
SPEAKER AMP IC601
PROTECT DET Q601
PROTECTOR Q722, 723
PROTECTOR Q721
RY641
TM601-2 REAR SPEAKER IMPEDANCE USE 8-16Ω
RELAY DRIVE (SURR) Q641
D207
RY642
TM601-1 DRLC SPEAKER IMPEDANCE USE 8-16Ω
RELAY DRIVE (LINK) Q642
D209
IC307 SELECTOR
SWITCH Q304
SWITCH Q306, 307
SWITCH Q303
SWITCH Q301, 302
SURR. A
SURR. B
VR (+)
VR (−)
RV501-4 VOLUME
INPUT ROGIC
DRIVE CIRCUIT
WITH RV501
IC201 MOTOR (VOLUME) DRIVE
IC104 FLIP-FLOP
KEY OUT A
KEY OUT B
KEY OUT C
KEY IN A
KEY IN B
KEY IN C
IC105 SWITCH
S103–S150 FUNCTION SWITCH
SWITCH Q101, 104
SWITCH Q102, 103
S151 MUTING
S152 DBFB
B+
FL101 FLUORESCENT INDICATOR TUBE
FL DRIVE IC101
FL DATA
FL CK
FL LS
FL CL
S1–S24
1G–16G
P. IN
S101 POWER (ON STANDBY)
S102 DRLC POWER (ON STANDBY)
REMO. LK
S. CONT
REMO. MA
DRLC CONTROL Q203, 204
CN501 DRLC (IN)
SIRCS IC102
D105–D114,VR LED FUNCTION LED
LED DRIVE IC103
LED CL
LED CE
DATA CLK
D141 (−20dB)
SWITCH Q105–107
IC803 SELECTOR SWITCH
Q803 MUTING
Q802 MUTING
Q804 MUTING
INVERTER Q209
INVERTER Q207, 208
INVERTER Q213
(SAME)
(T2)
(FUNC. MUTE)
STOP
RESET
LINK MUTE
SURR
S. CLOCK
S. DATA
LATCH
V. A
V. B
V. C
RESET Q201, 202
STOP DETECTOR Q951–956
RESET Q956
SWITCH Q955
T901 POWER
T902 POWER
D955
D956
VOLT. REG. Q951
RECT D951–952
B+5V
B+60V
B+30V
B−60V
B+5V
B+5V
B+12V
B−12V
B+26V
B−26V
VOLT. REG. Q971
VOLT. REG. IC973
VOLT. REG. IC971
VOLT. REG. IC972
RECT D971
RECT D972
RECT D913
RY901
CNJ901 AC OUTLET SWITCHED 100W MAX
RELAY DRIVE (POWER) Q952
1070X : E MODEL
CBP901
VS901 VOLTAGE SELECTOR 220V 240V 120V
970X, 1070X : US. CANADIAN MODEL
* NOT REPLACEABLE : BUILT IN TRANSFORMER.